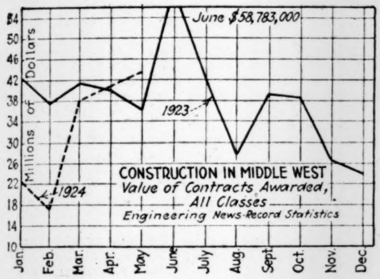
CONSTRUCTION NEWS

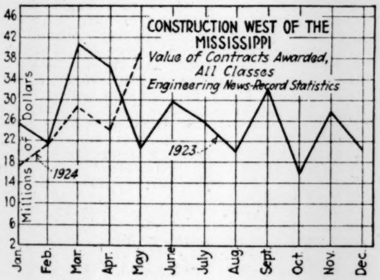
Engineering News-Record, June 19, 1924

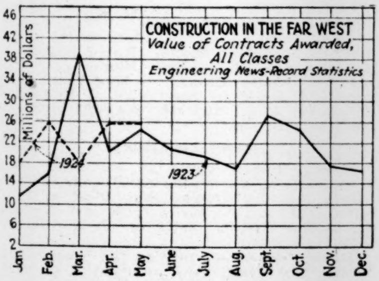
The Construction Barometer

Decline in Contract Letting During Past Week—Production of Building Materials, Except Steel, Steadily Increasing—Improvement in Demand Imminent

CONTRACT letting in both private and public work showed an appreciable decline during the week ended June 12 as compared with the week preceding. Public building awards, of $150,000 and over, increased in number but decreased in average value per contract during the week. A comparison of May contracts with those of the month preceding, however, showed strong gains in all sections of the country except the group consisting of the following states: Idaho, Utah, Nevada, Arizona, Washington, Oregon and California. Production of all building materials except steel, is steadily increasing as the season advances. Consumers' stocks of other basic materials are comparatively small; a resumption of more active production schedules is therefore expected in the not too distant future. With construction cost 21 per cent below the 1920 peak and credit conditions still favorable, a depression equalling in severity that of 1920-21 is not anticipated at the present time.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
May 29	$24,429,000	$19,422,000	$43,851,000
June 5	27,725,000	19,189,000	46,914,000
June 12	19,883,000	13,002,000	32,885,000
3 weeks	$72,037,000	$51,613,000	$123,650,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

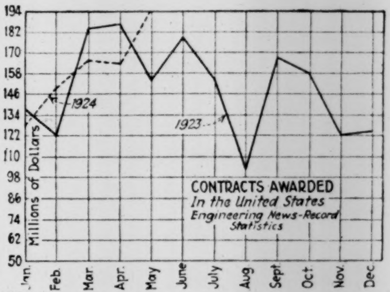
Week Ended	No.	Public Work	No.	Private Work
May 29	11	$4,377,000	19	$12,425,000
June 5	8	4,801,000	47	13,899,000
June 12	12	3,558,000	22	11,355,000

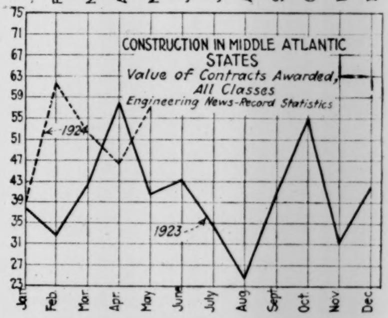
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

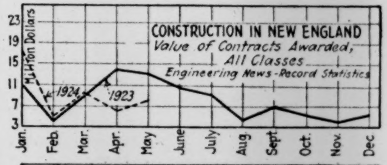
			Public		
Week Ended	Private	All Buildings	Streets and Roads	Waterworks and Sewers	All Public
May 29	24	45	84	35	213
June 5	35	53	95	55	250
June 12	27	48	99	41	236

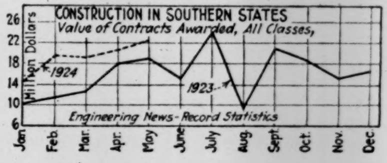
PINE LUMBER FIRMER—OTHER MATERIALS SHOW LITTLE CHANGE

	Quoted on June 19 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.10 @2.25	$2.10 @2.30	June 5
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	60.00	59.00	June 12
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.56	.55	Apr. 24









PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
June 20	Boston, Mass.	June 19
June 20	Boston, Mass.	June 19
June 23	Essex, Ont.	June 19
June 24	Tampa, Fla.	May 22
June 24	Jackson, Tenn. Adv. June 5 to 19.	June 5
June 24	Morganfield, Ky.	June 5
June 24	Williams, Ariz.	June 12
June 24	Buffalo, N. Y.	June 19
June 25	Baltimore, Md.	June 19
June 26	Durham, N. C. Adv. May 22 to June 19.	May 29
June 27	Marshalltown, Ia.	June 19
June 27	Cookeville, Tenn.	June 19
June 27	Los Angeles, Calif.	June 19
July 1	Detroit, Mich. Adv. June 19.	June 19
July 2	Jackson, Mich.	May 29
July 2	Lavallette, N. J.	June 19
July 7	Park Ridge, N. J. Adv. June 19.	June 19
July 16	Shreveport, La.	June 5
July 24	Dallas, Tex.	June 5

SEWERS

Bids Close		See Eng. News-Record
June 19	Shreveport, La. Adv. June 12 and 19.	June 12
June 23	Little Rock, Ark.	June 19
June 24	Burbank, Calif.	June 12
June 30	Grand Rapids, Mich.	June 12
June 30	Wash., D. C. Adv. June 12 and 19.	June 12
June 30	Adams, Mass. Adv. June 19.	June 19
July 1	St. Louis, Mo.	June 5
July 8	Springfield, Mass. Adv. June 19.	June 19

WASTE DISPOSAL

Bids Close		See Eng. News-Record
July 7	Ambridge, Pa. Adv. June 5 to 19.	June 5

BRIDGES

Bids Close		See Eng. News-Record
June 24	Minnesota	June 12
June 24	Missouri	June 19
June 24	Wyoming	June 19
June 27	Seattle, Wash.	May 15
June 27	La Grange, Tex.	June 5
June 30	Alabama	June 5
June 30	California	June 12
July 1	Pennsylvania Adv. June 12 and 19.	June 12
July 2	Baton Rouge, La. Adv. June 12 and 19.	June 12
July 3	Bousall, Calif.	June 12
July 14	Houston, Tex.	June 19

DAM

Bids Close		See Eng. News-Record
June 25	Providence, R. I.	June 12

RAILWAYS

Bids Close		See Eng. News-Record
June 23	Michigan	June 19

EXCAVATION, DRAINAGE IRRIGATION

Bids Close		See Eng. News-Record
June 24	Pine Bluff, Ark.	June 19
June 25	Baltimore, Md.	June 19
June 28	Kaufman, Tex.	June 12
July 3	Buffalo, N. Y.	June 19
	Adv. June 19.	

STREETS AND ROADS

Bids Close		See Eng. News-Record
June 20	New York	June 12
	Adv. June 12 and 19.	
June 21	Upper Darby, Pa.	June 19
June 23	Kingston, Pa.	June 12
June 23	Cleveland, O.	June 12
June 23	Old Fort, N. C.	June 12
June 23	Bexley, O.	June 19
June 23	Springtown (Bloomsbury P. O.), N. J.	June 19
	Adv. June 12 and 19.	
June 23	Phila., Pa.	June 19
June 23	Sarasota, Fla.	June 19
June 23	Tavares, Fla.	June 19
June 24	Massachusetts	June 19
June 24	Roxbury (Boston P. O.), Mass.	June 19
June 24	Wisconsin	June 19
June 24	Wyoming	June 19
June 24	Michigan	June 12
June 24	Minnesota	June 12
June 24	South Highlands, La.	June 5
June 24	Howard, Kan.	May 29
June 24	Washington	June 12
June 24	Allison, Ia.	June 19
June 24	Louisiana	June 19
June 24	Gardner, Mass.	June 19
	Adv. June 19.	
June 24	Bastrop, La.	June 19
June 24	Tampa, Fla.	June 19
June 24	Edgefield, S. C.	June 19
June 24	Missouri	June 19
June 24	Buffalo, N. Y.	June 19
June 25	Ansonia, Conn.	June 5
June 25	Delaware	June 12
June 25	Elkhart, Ind.	June 19
June 25	Bluffton, Ind.	June 19
June 25	Baltimore, Md	June 19
June 25	George, Ia.	June 19
June 26	Wisconsin	June 19
June 26	Little Rock, Ark.	June 19
June 26	Huntsville, Tex.	June 5
June 26	Newton, N. J.	June 5
	Adv. June 5 to 19.	
June 26	Virginia	June 12
June 26	New York	June 12
June 26	Laurens, S. C.	June 19
June 27	Carthage, Mo.	June 5
June 27	Jasper, Tex.	June 12
June 27	Greenwood, S. C.	June 19
June 27	Carthage, Tex.	June 19
June 27	Waupun, Wis.	June 19
June 27	Crown Point, Ind.	June 19
June 27	Brownstown, Ind.	June 19
June 27	Bluffton, Ind.	June 19
June 28	Williamsport, Ind.	June 19
June 30	California	June 12
June 30	Wheeling, W. Va.	June 12
	Adv. June 12 and 19.	
June 30	Tennessee	June 5
June 30	Williamsville, N. Y.	June 12
	Adv. June 5 to 19.	
June 30	Schafer, N. D.	June 19
June 30	South Bend, Ind.	June 19
June 30	Laurel, Miss.	June 19
June 30	Marion, Ind.	June 19
July 1	Massachusetts	June 19
July 1	Lisbon, O.	May 15
July 1	Lisbon, O.	May 22
July 1	St. Louis, Mo.	June 5
July 1	Pennsylvania	June 12
	Adv. June 12 and 19.	
July 1	Grand Rapids, Minn.	June 19
July 1	Louisiana	June 19
July 1	Hillsborough, Calif.	June 19
July 2	Angleton, Tex.	June 12
July 3	Alabama	June 19
July 3	Pine Bluff, Ark.	June 19
July 3	Newton, N. J.	June 19
	Adv. June 19.	
July 7	New York	June 19
	Adv. June 19.	
July 7	San Jose, Calif.	June 19
July 7	Martinez, Calif.	June 19
July 8	Williamson, W. Va.	June 19
July 8	Petersburg, Ind.	June 19
July 10	Olathe, Kan.	June 12
July 11	Osborne, Kan.	June 19
July 15	Faribault, Minn.	June 5
July 15	Alabama	June 12

INDUSTRIAL WORKS

Bids Close		See Eng. News-Record
June 22	Detroit, Mich.	June 19
June 26	Detroit, Mich.	June 19

BUILDINGS

Bids Close		See Eng. News-Record
June 20	New York, N. Y.	June 5
June 20	Trenton, N. J.	June 5
June 20	Pocono Manor, Pa.	June 19
June 23	Kenosha, Wis.	June 5
June 23	Delanco, N. J.	June 5
June 23	Canton, O.	June 12
June 23	Union, N. J.	June 19
June 23	Nashville, Tenn.	June 19
June 23	Lowville, N. Y.	June 19
June 24	New York, N. Y.	May 29
June 24	Louisville, Ky.	June 12
June 24	Rosedale, Pa.	June 12
June 24	Flint, Mich.	June 19
June 27	Lubbock, Tex.	May 29
June 27	Ft. Worth, Tex.	June 19
June 28	Kent, O.	June 5
June 28	Knoxville, Tenn.	June 19
June 30	Ardmore, Pa.	June 5
July 1	Dallas, Tex.	May 22
July 2	Columbus, Neb.	June 19
July 7	Alliance, O.	June 19

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
June 20	Steel Boats—Huntington, W. Va.	June 5
June 20	Dredge—Buffalo, N. Y.	June 12
	Adv. June 12 and 19.	
June 23	Dredging — Philadelphia, Pa.	June 5
June 23	Bridge—Quantico, Va.	June 5
June 23	Alterations — Norfolk, Va.	June 19
June 23	Repairs to Pier — Wash., D. C.	June 19
	Adv. June 12 and 19.	
June 23	Roads and Walks — Norfolk, Va.	June 19
June 23	Roof—Newport, R. I.	June 19
June 23	Repairs to Equipment—Wash., D. C.	June 19
	Adv. June 12 and 19.	
June 24	Hospital—Rutland, Mass.	May 29
June 24	Mess Hall, etc.—Gulfport, Miss.	May 29
June 24	Buildings, etc.—Federal Park, Md.	May 29
June 25	Bridges—Wilmington, Del.	May 1
June 25	Building — New York, N. Y.	June 19
June 25	Road—Arizona	June 19
June 26	Dredging—Baltimore, Md.	May 29
	Adv. May 29 to June 19.	
June 26	Current Retards—Lexington, Mo.	June 5
June 27	Post Office — Laramie, Wyo.	June 12
June 28	Dike—Boonville, Mo.	June 12
June 30	Post Office — Cohoes, N. Y.	June 5
July 1	Road—Arizona	June 19
July 1	Road—New Mexico	June 19
July 7	Steamboat Hull—Nashville, Tenn.	June 5
	Adv. June 5 to 19.	
July 7	Post Office—Elkhart, Ind.	June 12
	Adv. June 12 and 19.	
July 9	Radio Building—Destruction Island, Washington	June 5
July 9	Radio Building—Point St. George, Calif.	June 5
July 9	Road—New Mexico	June 19
July 30	Store House Depot, etc.—Pearl Harbor, H. T.	June 5
Aug. 5	Bridge—Florence, Ala.	May 15
	Adv. May 15 to June 19.	

UNCLASSIFIED

Bids Close		See Eng. News-Record
June 20	South Boston (Boston P. O.), Mass.	June 19
June 24	Brighton (Boston P. O.), Mass.	June 19
June 30	Mechanical Equipment, etc. — Long Island City, N. Y.	June 12
June 30	Mechanical Equipment — Brooklyn, N. Y.	June 12
June 30	Mechanical Equipment — New York, N. Y.	June 12
July 15	Subway—Phila., Pa.	June 12
	Adv. June 12 and 19.	
Aug. 4	Insulators—Melbourne, Victoria, Australia	June 12
	Adv. June 12 and 19.	

MATERIAL AND EQUIPMENT

Bids Close		See Eng. News-Record
June 25	Cast Iron Pipes—Baltimore, Md.	June 19
June 27	Steel Castings—St. Louis, Mo.	June 19
June 30	Bituminous Concrete and Sheet Asphalt — Trenton, N. J.	June 12
	Adv. June 12 and 19.	
Aug. 29	Dredger—Brisbane, Queensland, Australia	Apr. 10

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Hudson—Bd. of Selectmen, Town Hall, plans waterworks and sewerage systems. $40,500.

N. Y., Corning—Bd. Pub. Wks. and Common Council plan extending and improving water supply. $50,000. W. D. Drake, city engr.

Pa., Hawley—See "Industrial Works."

Pa., Phila.—Plans to expend $2,000,000 to improve and enlarge Forresdale filters. Total estimate $7,000,000.

S. C., Spartanburg—Mayor and Bd. City Comrs. approved development South Pacolet River. $1,350,000. Bd. Water Comrs. have been instructed to take necessary steps toward issuance bonds. P. H. Norcross, 1404 Candler Bldg., Atlanta, Ga., consult. engr.

Fla., Palatka—Election July 1, $40,000 bonds, enlarging waterworks system. H. A. Davis, mayor.

Wis., Eau Claire—Soon takes bids, 3 m.g. concrete reservoir, 2,500 ft. 24 in. mains, also 10, 12 and 16 ft. mains. $165,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, Minn., engr. Noted Mar. 6.

Wis., Green Bay—Allouez Twp. making plans 100,000 gal. concrete reservoir, pumping station, 75,000 gal. steel tank and tower, etc., near here. $75,000 A. E. McMahon, City Hall, Menasha, engr. W. Brenner, 129 South Washington St., Green Bay, chn.

Minn., Albany—Had plans prepared and soon takes bids waterworks system, incl. mains, 4 tubular wells, each 26 ft. deep, one 300 gal. per minute pump and motor. $20,000. R. E. Borrowman, 3 Weber Blk., St. Cloud, engr.

Minn., Swanville—Had plans prepared waterworks system, incl. mains, deep well, pump house and equipment, 200 gal. per minute pump, 50,000 gal. steel tank and tower. $22,000. R. E. Borrowman, 3 Weber Blk., St. Cloud, engr.

S. D., Gettysburg—Voted $20,000 bonds waterworks. B. Klein, city aud.

Tex., Amarillo—City Light & Water Co. had plans prepared 6- to 8-in. main extensions and fire hydrants between 12th and 22nd Sts. $300,000. J. B. Jones, Amarillo, engr.

Tex., Gilmer—Voted $22,000 bonds waterworks improvements. Municipal Eng. Co., 715 Praetorian Bldg., Dallas, engrs. Noted May 22.

Tex., Houston—J. C. Boyles, engr., Court House, soon takes bids 50,000 gal. tank and tower, settling basin, deep well, pumps, c.i. pipe mains, etc., in Nettlebrook addition, for San Jacinto Trust Co., Humble Bldg.

Tex., Irving—Irving Fresh Water Impvt. Dist. election June 21, $25,000 bonds, complete waterworks, well, etc. Koch & Fowler, Central Bank Bldg., Dallas, engrs. Noted May 15.

Tex., Lufkin—Plans 2 concrete settling tanks, 250,000 gal. capacity each, new pumps, etc. $15,000-$20,000. G. C. Brown, Lufkin, engr.

Okla., Heavener—Election July 15, $125,000 bonds, 15,000 ft. 12 in. c.i. mains, elevated tank and tower, filter plant and motor driven pumps. V. V. Long & Co., 1300 Colcord St., Oklahoma City, consult. engrs.

Okla., Okmulgee—Election soon $100,000 bonds for filtration plant. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs. Noted Dec. 20.

Calif., San Diego—See "Dams."

Calif., Santa Monica — Had plans prepared, 2 concrete reservoirs, 5 m.g. and 2,500,000 gal. capacity respectively. J. Morton, city engr.

BIDS DESIRED

Mass., Boston—June 20, by Dept. Pub. Wks., City Hall, mains in Bismarck, Germania and La Grange Sts., West in Roxbury, Ruskin Rd., Hyde Park and Wabash St. in Dorchester. $15,000. J. A. Rourke, City Hall, comr.

Mass., Boston—June 20, by Dept. Pub. Wks., City Hall, two hundred 6 in., two hundred 8 in., two hundred 12 in., and fifty 10-in. gate valves. $7,000. J. A. Rourke, comr.

N. Y., Buffalo—June 24, by Commissioner Pub. Wks., Municipal Bldg., 12, 16, 20, 24 and 30 in. Standard Class "A" c.i. pipe, for Buffalo filter plant. G. E. Andrews, Col. Ward Pumping Sta., engr.

N. J., Lavallette—July 2, by Boro Council, water supply system. Sherman & Sleeper, 501 Cooper St., Camden, consult. engrs.; adv. E. N.-R. June 19.

Md., Baltimore—June 26, by Bd. Awards, brass service pipe fittings to Water Dept. V. B. Siems, City Hall, water engr.

Tenn., Cookeville—June 27, by J. E. Owens, city clk., settling basins, elevated tank on tower, centrifugal pumps, pump houses, valves, hydrants, 48,250 ft. 4- to 10-in. c.i. mains and 5 mi. transmission line. $150,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, Okla., engrs. Noted Apr. 24.

Mich., Detroit—July 1, by Bd. Water Comrs., 4,000 lin.ft. more or less test

Waterworks (Continued)

borings. G. H. Fenkell, gel. mgr.; adv. E. N.-R. June 19.

Ia., Marshalltown — June 27, low lift pumping station, rein.-con. substructure, 26 ft. diameter, 18 ft. below surface, brick superstructure. A. T. Luce, supt. Water Works Dept., City Hall. Noted Apr. 17.

Calif., Los Angeles—June 27, by City Harbor Comn., Byrne Bldg., J. G. Starr, secy., 75,000 gal. sprinkler tank and tower at Berths 175 and 176.

Ont., Essex — June 23, by R. R. Brett, town clk., rein.-con. reservoir. $25,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs. Noted May 1.

BIDS RECEIVED

N. Y., Albany—Bd. Contr. & Supply, furnishing c.i. pipe and fittings from Chapman Valve Co., 180 Lafayette St., New York City, $10,600; meter for filtration plant, from Builders Iron Fdry. Co., Albany, $2,108; pumps, etc., from Worthington Pump & Mchy. Co., 115 Bway., New York City, $19,888; electric wiring from Alpha Electric Constr. Co., 124 Hudson Ave., $10,880.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Fort Hamilton Parkway, Delamere Pl., Howard, Sutter, 9th, 15th, 16th, M, N and O Aves., 52nd, 54th, 56th, 70th, 81st, East 8th, East 9th, East 27th, East 46th, East 52nd, East 54th, East 55th, East 56th, East 98th, West 1st and West 23rd Sts., from W. Norton, 510 West 149th St., $12,740. Noted June 5.

Pa., Phila.—Director Pub. Wks., City Hall, 16 in. mains, Contr. 673, from J. J. McHugh, 1617 Race St., $32,357; 8 soot blowers, Contr. 678, from Vulcan Soot Blower Co., 1104 Commonwealth Bldg., $3,952; 12,220 c.i. laterals, Contr. 684, from M. Ware Cast Iron Pipe Co., 209 Crozier Bldg., $25,418; 500 kw. generator, Contr. 685, from Genl. Electric Co., 804 Witherspoon Bldg., $22,738. Noted June 5.

Wis., Milwaukee—Central Bd. Purchases, City Hall, from Kennedy Valve Co., 116 East Miller St., Elmira, N. Y., one 48 in. gate valve at $2,888; two 54 in. at $2,624 and $3,657 each and four 30 in. at $841 each. Noted June 5.

CONTRACTS AWARDED

Mass., Waltham (Boston P. O.)—Metropolitan Dist. Comn., Water Div., 1 Ashburton Pl., Boston, about 15,400 ft., 60-in. steel and 200 ft. 16- to 60-in. c.i. mains, here, to C. and R. Constr. Co., 3 Tremont Row, Boston. $563,230. Noted June 12.

N. Y., Fulton—Bd. Pub. Wks., will lay mains western section of city, by day labor, under direction of H. Andrews, comr. $65,080.

Ill., Villa Park—For 100,000 gal. steel tank on tower, to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, $10,640; 2 wells, 12 in. deep, to J. P. Miller Artesian Well Co., 428 Orleans St., Chicago. Noted June 12.

Ia., Cresco—To Sewell Well Co., St. Louis, Mo., drill well., 15.5 in. diam. wrought iron casting, 17 in. wrought iron stand pipe, 250 lin. ft. 13 in. wrought iron casing, etc., $15,000, to I. M. Ipsen, Fairfield, 5,808 lin. ft. 4 in. c.i. pipe, 10 hydrants, and 16 valves, $3,058.

Mo., Kansas City—For 500 tons 6 in. c.i. pipe, to Natl. Cast Iron Pipe Co., 603 Land Bldg., $28,425.

Que., Aylmer—Extensions to waterworks and sewers in Jubilee Ave. and Bancroft St., to A. Lavigne, Aylmer, $57,000.

Que., Montreal—Rein.-con. tunnel under Lachine Canal for two 36 in. and one 48 in. water conduits, to Foundation Co., St. Catherine St. W., $278,640. Noted June 5.

Ont., Smiths Falls—J. J. Marsh, chn. Waterworks Dept., general contract for concrete dam, and filter beds to Schultz Bros., Ltd., Albion St., Brantford, $54,000; filter equipment, to International Filter Co., Confederation Life Bldg., Toronto, $15,953; pumps to Bowden Machine Co. Ltd., Sterling Rd., Toronto, $2,568; waterwheel to C. Barber & Sons, Meaford, $2,523, 200,000 gal. steel tank and tower to Horton Steel Wks. Ltd., Bridgeburg, $23,650, stop log winch to W. Kennedy & Son, Owen Sound, $2,646. Noted May 15.

B. C., Vancouver—Will extend waterworks and strengthen intake systems, $150,000, also fire protection system in Stanley Park, by day labor. C. Brackenridge, city engr. of former project and A. D. Wooton, Park Bd., engr. of latter.

Sewers

PROPOSED WORK

Mass., Hudson—See "Waterworks."

W. Va., Beckley—Election June 24, $50,000 bonds paving streets. B. H. Ashworth, city recorder.

Fla., Palatka—Election July 1. $40,000 bonds, extending sewerage system. H. A. Davis, mayor.

Tenn., Bristol—Voted $25,000 bonds extending sewerage system. C. B. Davis, city engr.

Tenn., Chattanooga—Plans election to vote on $500,000 bonds sanitary sewers in various districts. E. Bass, comr. Pub. Wks.

Ill., Staunton—Making preliminary plans 22 mi. 8- to 18-in. sanitary sewers, etc. $270,000. F. Yanonick, city clk.

Wis., Beaver Dam—Making plans new sewerage system incl. septic tank. To exceed $25,000. E. B. Parsons, Jefferson, engr.

Kan., Independence — See "Streets and Roads."

Kan., Independence—Making plans 2,500 ft. 12- to 15-in. vitrified sewers and pumping plant. $35,000. G. H. Hackmaster, Independence, engr. Noted Mar. 20.

Kan., Topeka—Plans disposal plant and rebuilding 176 mi. sewers in various streets. To exceed $1,500,000. C. A. Haskins, 3923 Oak St., Kansas City, Mo., engrs. Noted Aug. 16, 1923.

Mo., Mountain—Grove—Making preliminary plans complete sanitary and storm sewerage systems, disposal plant, etc. $25,000. L. M. Slaughter, Mountain Grove, engr.

Tex., Beaumont — Making plans 5 in. rein.-con. sewers in Long Ave. $25,000. R. M. Fulweiler, city engr.

Tex., Conroe—Election June 27, $45,000 bonds, complete sanitary sewerage system. Baker & Von Zuben, Ellison Bldg., Ft. Worth, engrs. Noted Mar. 13.

Tex., Gilmer—Voted $28,000 bonds sewer extensions. Municipal Eng. Co., 715 Praetorian Bldg., Dallas, engrs. Noted May 22.

Tex., Houston—J. C. Boyles, engr., Court House, soon takes bids 19 mi. sanitary sewers in Nettlebrook Addition, for San Jacinto Trust Co., Humble Bldg.

Calif., Ripon—Ripon Sanitary Dist. plans election to vote on $30,000 or more bonds, disposal system, incl. 6, 8 and 12 in. pipe, manholes, flushtanks and Imhoff tanks.

Calif., Salinas—Having estimates made, storm water and sanitary sewers. $25,000 or more. H. W. Cozzens, city engr.

Calif., Santa Ana — See "Streets and Roads."

Calif., Victorville — Victorville Sanitary Dist. making plans disposal system, 9,000 lin.ft. 14 in. sewer main, filtration plant in sands, 8 ft. lower than the river. Bonds will be issued to finance construction. W. A. Foster, Victorville, consult. engr.

Ont., Ford — Making plans sewers in Parent, Rossini and Aubin Rds. $135,000. J. F. Foster, city engr.

B. C., Vancouver—Making plans extending sewers in various parts of city. Part of work to be done by day labor, and part by contract. $200.000. C. Brackenridge, City Hall, engr.

BIDS DESIRED

Mass., Adams—June 30, by Bd. of Selectmen, constructing 2 mi. sanitary sewers, adv. E.N.-R. June 19.

Mass., Springfield—July 8, by Bd. Supervs. Dept. of Streets & Engineering, City Hall, for Washburn street sewage pumping station and appurtenances. Metcalf & Eddy, 14 Beacon St., Boston, consult. engrs.; adv. E. N.-R. June 19.

Mass., Springfield—Sewer Dept. taking bids pumping station. $60,000. P. P. Marsh, city engr.

Ark., Little Rock—June 23, by Comrs. Sewer Dist. 94, City Hall, 11,400 ft., 15- to 36-in. trunk sewers, 73 manholes, also repairing and renewing 6- to 12-in. laterals. $211,498. V. P. Knott, 407 Southern Trust Bld., Engrs.

Ark., Pine Bluff — See "Streets and Roads."

BIDS RECEIVED

N. Y., New York — See "Streets and Roads."

O., Cleveland—Cuyahoga Co., 8- to 36-in. **(a)** rein.-con. or **(b)** segmental block sewer in Impvt. 59, from Gantose Constr. Co., Columbia Bldg., **(a)** $59,461; Langahan Constr. Co., Marshall Bldg., **(b)** $55,241.

O., Cleveland—Sewers in **(1)** Broadview Rd. **(2)** Grand Divison Ave. **(3)** East Blvd. **(4)** Denley Ave. **(5)** Lacota Ave. **(6)** East 143rd St. (1-6 inclusive) involves 17,240 ft. 12- to 20-in. tile pipe, **(7)** 820 ft. 12 in. vitr. tile and 1,310 ft. 24 in. rein.-con. sewer in East 144th St. **(8)** East 144th St. **(9)** 3,650 ft. 8 in. and 1,330 ft. 7 ft. 6 in. brick or concrete pipe in West 130th St. **(10)** 675 ft. 4 in., 730 ft. 3 in. and 320 ft. 3 ft. 6 in. brick or concrete and 4,360 ft. 12- to 24-in. vitr. tile sewer in Lake Shore Blvd., from Hadded & Kairal Constr. Co., 415 Eagle Ave., **(1)** $13,225 **(4)** $11,327 **(7)** $11,825; W. McDowell & Son, 10319 Miles Ave., **(2)** $17,215; Sprague & Burkhardt, 11811 Browning Ave., **(3)** $9,196 **(5)** $2,549; C. Cesa & Son, 2462 Baldwin Ave., **(6)** $11,450 **(8)** $6,598; Gallagher-Burke Constr. Co., 1228 Bonnieview Ave., Lakewood, **(9)** $18,391; Joseph Co., Prospect 4th Bldg. **(10)** $40,769. Noted May 15.

CONTRACTS AWARDED

Pa., Phila.—Delaware River Bridge Joint Comn., Widener Bldg., sewers for bridge over Delaware River, between here and Camden, to Lombardi Co., Inc., Lincoln Bldg., $173,464. Noted June 12.

O., Canton—Additions to disposal plant, to Melbourne Constr. Co., 1220 9th Ave. N. E., $676,814. Noted Dec. 13.

O., Columbus—See "Streets and Roads."

O., Euclid—Concrete sewer in Bliss Rd., to Hadded-Mall Co., Schofield Bldg., Cleveland, $194,129. Noted June 12.

Mich., Port Huron—For 5,320 ft. 24, 30, 33, 36 and 48 in. sewers in Taylor and Botsford Sts., to O'Sullivan & Woodrow, Port Huron, $41,700. Noted May 29.

Minn., Waconia—Sanitary sewerage system, 16,032 lin.ft. 8 in. and 1,497 ft. 10 in. sewer, disposal plant, etc., to Gjellefald-Chapman Constr. Co., Forest City, Ia. Noted May 22.

Ark., Atkins—See "Streets and Roads."

Ark., Pine Bluff — Jefferson Co. Sewer Dist. 1, 63,962 ft. sewerage system and disposal plant, to Rowen & Rickard, Oklahoma City, $85,225. Noted June 12.

Okla., Tulsa—Storm sewers, to Tibbets & Pleasant, 209 North Nogales St., $180,504.

Calif., Irvington — Irvington Sanitary Dist., 7½ mi. 6- to 12-in. sewers, to Oakland Sewer Constr. Co., 1003 85th Ave., Oakland, $33,110. Noted June 12.

Calif., San Diego—Sewerage system, Mission Beach St., 27,945 lin.ft. 6 in., 5,470 lin.ft. 10 in., 6,781 lin.ft. 12 in. concrete pipe, 127 manheles, 6 flush tanks, one settling tank, 3 pumping stations, 1,200 lin. ft. c.i. outfall pipe, to Downer & Mero, 401 16th St., Richmond, $159,016. Noted June 12.

Que., Aylmer—See "Waterworks."

Waste Disposal

PROPOSED WORK

N. Y., Elmhurst—M. E. Connolly, pres. Quens Boro, Quens Subway Bldg., Long Island City, soon takes bids incinerator, Queens Blvd. near Woodhaven Ave., here. $275,000.

Wis., South Milwaukee—R. Schauer, city clk., soon takes bids disposal plant. $35,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.

Bridges

PROPOSED WORK

Mass., Cohasset—Voted $31,000 bonds to relocate and reconstruct bridge over Gulf River, on Bordes St.

New Jersey—State Hy. Dept., Trenton, plans repairing timber and steel bridge crossing Delaware River between Lambertville, N. J., and New Hope, Pa. L. Focht, State Office Bldg., engr.

Tenn., Maryville—City and Blount Co. soon take bids concrete bridge and viaduct. $150,000. Freeland, Roberts & Co., Independent Life Bldg., Nashville, engrs.

Ky., Burnside—Cincinnati, New Orleans & Texas Pacific Ry. Co., (branch of Southern Ry.), 4th and Sycamore Sts., Cincinnati, O., plans railroad truss bridge over Cumberland River, here. To exceed $100,000. A. A. Woods, ch. engr. maintenance of way and structures.

Wis., Beaver Dam — See "Streets and Roads."

Wis., Milwaukee—Making plans 1,000 ft. concrete and steel bridge on Holton St. $1,000,000. M. C. Cutler, City Hall, engr.

Wis., Milwaukee—Park Bd., F. Schumacher, secy, City Hall, soon takes bids reinforcing steel for rein.-con. bridge, on Mason St., $230,000. Clas, Shepherd & Clas, 445 Milwaukee St., engrs. Noted Jan. 3.

Calif., Asti—Sonoma Co. (Santa Rosa), making plans bridge over Russian River, here. $100,000 if rein.-con. E. A. Peugh, Santa Rosa, co. surv.

B. C., North Vancouver—Plans steel bridge with concrete deck, 30 and 150 ft. with abutments over Lynn Creek. $60,000. G. S. Hanes, 128-3rd St., engr.

BIDS DESIRED

S. C., Greenwood — See "Streets and Roads."

S. C., Laurens—See "Streets and Roads."

Missouri—June 24, by State Hy. Dept., Jefferson City, one 60 ft. steel truss and five 20 ft. rein.-con. slab spans, etc., over Third Fork Platte River, De Kalb Co.; one 80 ft. steel truss and four 40 ft. I-beam spans, etc., over East Fork Grand River, Worth Co.; three 20 ft. rein.-con.

Bridges (Continued)

slab spans, etc., over Howell Creek, Howell Co.; one 70 ft. steel truss and seven 20 ft. rein.-con. slab spans, etc., over Cane Creek, Butler Co.; two 30 ft. rein.-con. deck girder spans over Buffalo Creek, one 40 ft. rein.-con. deck girder and six 20 ft. rein.-con. slab spans, etc., over Limestone Creek, Dade Co.; one 40 ft. I-beam span over Drainage Ditch 15, one 50 ft. I-beam span over Drainage Ditch 14, Cape Girardeau Co.; one 10 ft., one 12 ft. and one 20 ft. rein.-con. slab spans, etc., over Creek, Barton Co.; one 30 ft. rein.-con. deck girder, one 12 ft. and two 20 ft. rein.-con. slab spans over Creek, Bates Co.; two 12 ft. rein.-con. slab spans, etc., over Creek, and one 100 ft. steel span, etc., over Joachim Creek, Jefferson Co.; two 12 ft. rein.-con. slab spans, etc., over Dayce Creek, three 40 ft. rein.-con. deck girder spans, etc., over Flat River, one 25 ft. rein.-con. deck girder spans, etc., over Joachim Creek, one 150 ft. and one 100 ft. steel truss spans, etc., over Big River, St. Francois Co. B. H. Piepmeier, ch. engr.

Wyoming—June 24, by State Highway Comn., Cheyenne, 159 ft. rein.-con. arch bridge over Shoshoni River at Cody, Federal Aid Project 129, Park Co., $27,000; two 120 ft. steel span bridge over Gros Ventre Creek, at Teton, Federal Aid Project 163 A, Jackson Co., $36,000. J. F. Seiler, Cheyenne, engr.

Tex., Carthage—See "Streets and Roads."

Tex., Houston—July 14, at office City Secretary, rein.-con. bridge across Buffalo Bayou at intersection Congress Ave., Smith and Acuff Sts. O. F. Holcombe, mayor. Noted Feb. 7.

Calif., San Jose—City Council taking bids and opens same about June 23, concrete girder bridge, 360 piles, 25 ft. long, over Guadalupe River at Santa Clara St., also 67 ft. rein.-con. girder bridge, 140 ft., over Los Gatos Creek at Santa Clara St. To exceed $50,000. W. Popp, city engr.

BIDS RECEIVED

N. J., Jersey City—Bd. Freeholders, Hudson Co.; bridge on Boulevard at Summit Ave. Tube Sta., from Stillman Delehanty-Ferris Co., 1 Exch. Pl., $1,342,783.

Ind., Lawrenceburg—Dearborn Co., concrete arch bridge, from C. Runck, Jr., 1st Natl. Bank Bldg., Cincinnati, O. $69,933. Engrs. est. $75,000.

Calif., Los Angeles—Rein.-con. viaduct over Los Angeles River, on 9th St., from North Pacific Constr. Co., Detwiler Bldg., $401,897 (city will furnish cement); rein.-con. bridge over Pacoima Wash, from R. Beyrle, 957 East 23rd St., $26,724. Noted May 8.

CONTRACTS AWARDED

S. C., Saluda—See "Streets and Roads."

Alabama—See "Streets and Roads."

Ohio—See "Streets and Roads."

West Virginia—State Road Comn., Charleston, concrete substructure and approach fills to Gassaway Bridge 932 across Elk River, Project 3157, Braxton Co., to Skene-McAlpin Constr. Co., Pt. Pleasant, $26,246; two 40 ft. span through girders across Ralston Run, Randolph Co., to G. H. Lewis, Pedlar Mills, Va., $15,078; concrete substructure to Opaquon Bridge 957, near Martinsburg, Project 3221, Berkley Co., to Concrete-Steel Bridge Co., Clarksburg, $10,747.

Ind., Muncie—Delaware Co., concrete arch, known as Moore Bridge, over White River, to Natl. Concrete Co., 825 Lemcke Bldg., Indianapolis. $454,900. Engrs. est. $56,290. Noted May 29.

Michigan—State Hy. Dept., at office Comrs. Monroe Co., Monroe, rejected bids Bridge 580711 over Raisin River, on Federal Aid Project 73 G, Frenchtown Twp., also Bridge 581206 Monroe Twp. Work will be done by day labor.

Michigan—State Hy. Dept. at office Comrs. Oakland Co., Pontiac, Bridge 632303, 40 ft. span, and Bridge 632301, 44 ft. span, on Trunk Line 10, Federal Aid Project 97, Waterford Twp., to Bailey & Demuth, Owosso, $11,667 and $7,995 respectively; Bridge 680102, 35 ft. rein.-con. girder, on Trunk Line Rd. 33-4 A, Big Creek Twp., to Frank & Stiehl, Au Gres, $9,424. Noted May 22.

Ia., Clarion—Bd. Supervs. Wright Co., 15 concrete box culverts, to Hilderbrand & Kragh, Belmont, $5,274; 9 I-beam spans, 2 wood bridges and one repair job, to Iowa Bridge Co., 1263 East 19th St., Des Moines, $26,168, 5 concrete box culverts, to E. F. Rochet, Woolstock, $1,575. Engrs. est. $33,017.

Ia., Newton—Jasper Co., 13 culverts and 1 slab span bridge, to C. W. Mason, Monroe, $8,379; 35 box culverts, to W. Palmer, Kellogg, $18,666; 24 box culverts and 1 slab span bridge, to W. J. Schuman, Newton, $15,737.

Minn., St. Paul—Ramsey Co., 892 ft. temporary bridge over Mississippi River at Jackson St., 24 ft. roadway, one 6 ft. sidewalk, all timber except one 92 ft. through plate girder lift span, to W. M. Murphy & Son, 342 Endicott Bldg., Minneapolis, $59,254. Noted May 29.

Kan., Anthony—Harper Co. three 100 ft. span bridge, rainbow arches, 20 ft. roadway, 938 cu.yd. concrete, 67,000 lb. steel bars, 55,480 lb. structural steel, rock foundations, near here, to Maxwell Constr. Co., Columbus, $32,275.

South Dakota—State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)** one 130 ft., one 144 ft., one 23 ft. and one 34 ft. viaducts and 3 culverts on F. A. P. 163, Butte & Lawrence Counties, also one 102 ft. viaduct on F. A. P. 162 B, Haakon Co., to Concrete Eng. Co., Rapid City, $31,999 and $10,513 respectively; one 108 ft. and one 120 ft. viaducts on F. A. P. 149 B and C, Spink Co., to Iowa Bridge Co., 1263 East 19th St., Des Moines, Ia., $27,354; one 23 ft. viaduct on F. A. P. 170 B, Lake Co., to C. M. Fassett, Brookings, $2,014; one 48 ft. and one 36 ft. viaducts on F. A. P. 175, Hand Co., to M. A. Stump, Mobridge, $10,040. Noted June 5.

Ark., Little Rock—North Arkansas Rd. Impvt. Dist. 2, 37 steel bridges from 20 to 200 ft. long, on North Arkansas Rd. 2, to W. H. Dennison, Cushman, $162,260.

Tex., Austin—See "Streets and Roads."

Wash., Seattle—Timbered approach to West Spokane St. bridge, to V. Ramaglia and I. Ives, 4415 Corliss Ave., $43,868.

Calif., Pasadena—City will build rein.-con. bridge over Arroyo Seco, Linda Vista Ave., 423 ft. long, 240 ft. between faces of abutments with 2 arch span approaches on each side, by day labor under supervision of W. C. Earle, city engr. Noted May 29.

Dams

PROPOSED WORK

Pa., Hawley—See "Industrial Works."

Wis., Friendship—Friendship Power Co., G. Polvika, mgr., having plans prepared by L. A. De Guere, Wisconsin Rapids, 300 ft., rein.-con. dam 25 ft. head, 6 mi. high-voltage power transmission line, two kw. hydroelectric units, and transformers. $25,000.

Oregon—See "Unclassified."

Calif., Merced—Merced Irrigation Dist. rejected bids furnishing aggregates for dam, power house and railroad. Noted June 12.

Calif., San Diego—Common Council plans election probably late in August, $3,600,000 bonds for acquisition of lands and constructing arched, gravity section, masonry type dam at Mission Gorge Dam Site 2 on San Diego River; $400,000 for another dam and reservoir also on San Diego River. F. A. Rhodes, city engr.

CONTRACTS AWARDED

Mich., Menominee—M. & M. Paper Co., J. H. Delbridge, mgr., Marinette, about 400 ft., rein.-con. dam, 11 ft. head on Menominee River, and about 30 x 80 ft., rein.-con. power house, to C. R. Meyer & Sons Co., 50 State St., Oshkosh.

Railways

PROPOSED WORK

California—See "Dams" under Merced.

Canada—Canadian Pacific Ry., Windsor Sta., Montreal, Que., plans engine houses at Three Rivers, Que., and Schreiber, Ont., plans to purchase machinery $302,020, constructing coaling plant $211,746, rail replacement $1,286,857, mechanical coaling plants at McLean and Eyebrow, Sask., extending engine houses at Outlook and Wynyard, Alta, 27 mi. line from Mont Laurier to St. Anne du Lac, Que. J. M. Fairbairn, Montreal, Que., ch. engr.

California—See "Unclassified" under San Diego.

Ontario—Temiskaming & Northern Ontario Ry., North Bay, having preliminary surveys prepared 20 mi. branch line railway from end of steel on St. James Bay Extension, 70 mi. north of Cochrane, westerly to Smoky Falls on Mattagami River. $800,000. S. B. Clement, ch. engr.

BIDS DESIRED

California—City Harbor Comn., J. G. Starr, secy., 312 Byrne Bldg., Los Angeles, taking bids and opens same about June 27, 2,000 tons 75 lb. A. S. C. E. rail.

Excavation, Drainage, Irrigation

PROPOSED WORK

Fla., Belleair Heights—Plans election to vote on $25,000 bonds, 1 mi. of dredging, incl. 500 x 1,500 ft. yacht basin, 9 ft. deep. E. E. Carley, mayor.

Tex., El Paso—R. B. Kimbrough plans diverting 900 acre ft. water from Rio Grande River, will irrigate 800 acres. $40,000. Private plans.

Tex., Houston—H. W. Washburn, aud. Harris Co. takes bids early in July, 6 mi. ditches for D. D. 7. $15,000. J. S. Boyles, Court House, engrs.

Calif., San Diego—Common Council plans election probably late in August $250,000 bonds, dredging bay front between Columbia and 8th Sts., and constructing 3,000 ft. bulkhead. F. A. Rhodes, city engr.

Ont., Park Hill—McGillivray Twp. takes bids about middle of July dredging and deepening Aux Sable River, 60,000 cu.yd. excav. A. Farncombe, Dominion Savings Bldg., London, engr.

BIDS DESIRED

N. Y., Buffalo—July 3, at office Dept. Pub. Wks., Municipal Bldg., channel dredging Sect. 2, Buffalo River and Cazenovia Creek, 950,000 cu.yd. excav.; adv. E. N.-R. June 19.

Md., Baltimore—June 25 by Bd. Awards, dredging in Harbor of Baltimore. B. Hill, City Hall, Harbor engr.

Ark., Pine Bluff—June 24, by Comrs. Plum Bayou D. D. at office of Coleman & Gantt, attys., 615 Citizens Bank Bldg., levee across Ash Flat at southern terminus of Plum Bayou Levee, 20,000 to 25,000 cu.yd. excav. W. D. Dickinson, Boyle Bldg., Little Rock, engr. Noted Oct. 10.

BIDS RECEIVED

Fla., Tampa—Hillsborough Co., for 125,000 cu.yd. hydraulic fill, from Erler Corp., (by B. B. Logan, agt.), Tampa, $43,487. Noted May 1 under "Unclassified."

Wis., Milwaukee—J. H. Fowler, secy., Sewerage Comn., 508 Market St., backfilling around sewage disposal plant, Jones Island, from W. H. Gillen, 902 Summit Ave., 80,000 cu.yd. dredging at $0.875 per cu.yd. and 450 tons rip rap at $10 per ton.

CONTRACTS AWARDED

Mass., Orleans—Dept. Pub. Wks. Div. Waterways, State House Boston, dredging about 44,000 cu.yd. in Nanset Harbor, Town Cove, Namequoit River and Pleasant Bay, here, to W. E. Burke, 28 School St., Boston, $20,252. Noted June 12.

Fla., Tampa—Interstate Investment Co., Citizens Bank Bldg., 160,000 cu.yd. dredging channel to estuary property, and turning basin at docks, to Seaboard Dredging Co., 105 Jackson St., $0.25 per cu.yd.

Calif., Blythe—Palo Verde D. D., 36 mi. open drains, incl. in the main 1,460,000 cu. yd. excav., also timber and concrete structures, to D. A. Foley & Co., 701 Grant Bldg., Los Angeles, $0.1333 cu.yd., total approximately $300,000. Noted May 15.

Streets and Roads

PROPOSED WORK

Mass., Boston—City plans widening, relocating and constructing Cambridge and Court Sts., as highway from Charles to Brattle Sts. $3,500,000. J. F. Sullivan, secy. street laying out dept.

Mass., Chelsea (Boston P. O.)—Plans improving various streets this summer. $200,000.

Mass., Dorchester (Boston P. O.)—City of Boston plans constructing various streets, here. $25,000. J. T. Sullivan City Hall, Boston, secy. Street Laying Out Sept.

Mass., Roxbury (Boston P. O.)—City of Boston plans constructing various streets here $25,000. J. T. Sullivan, City Hall, Boston, secy. street laying out dept.

New York—A. W. Brandt, comr. highways, Albany, received no bids constructing and reconstructing 4.55 mi. Highway 1659, St. Regis Indian Reservation Rd., Franklin Co. $167,095. Noted May 22.

N. Y., Albany—Common Council plans repairing South Ferry and South Swan Sts. To exceed $25,000. Address J. F. Donovan, clk.

N. Y., Oneida—Voted $45,000 bonds paving Elm and Warner Sts. J. M. Hutton, engr. Noted May 22.

N. Y., Rome—Common Council and Engineering Dept. plan paving Kent, North Washington and East Whitesboro Sts. Address F. L. Martin, Mayor.

Streets and Roads (Continued)

N. J., Newton—Freeholders Sussex Co., plans paving 3 mi. Sparta-Woodport Rd., 10 ft. $50,000. H. Snook, Newton, engr.

N. J., Trenton—Mercer Co. soon takes bids paving Sullivan Way from city line to Trenton Junction, concrete $80,000, and River Rd. from Yardley Bridge to Villa Victoria, asphalt, $30,000. H. F. Harris, Court House, engr.

W. Va., Beckley—Election June 24, 38,000 bonds for sewers. B. H. Ashworth, city recorder.

Fla., Belleair Heights — See "Unclassified."

Fla., Palatka—Election July 1, $60,000 bonds, paving and repaving streets and sidewalks. H. A. Davis, mayor.

La., Farmersville—Union Parish, voted $400,000 for grading and gravel surfacing various roads. Noted May 15.

La., Gretna—Jefferson Parish, election June 17, $500,000 bonds road improvements in 7th, 8th and 9th Wards.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans grading and surfacing, probably concrete, 3.5 mi. Ooltewah-Bradley Co. line Rd., 18 ft., Hamilton Co. J. G. Creveling, highway comr.

Tenn., Gallatin — Making plans paving various streets, probably asphalt, $35,000. B. H. Klyce, 4th and 1st Natl. Bank Bldg., Nashville, engrs.

Tenn., McKenzie—Making plans improving streets and sidewalks, etc. $30,000. B. H. Klyce, 4th and 1st Natl. Bank Bldg., Nashville, engrs.

Tenn., Nashville—Plans grading and surfacing 9th Ave., probably granite block on concrete. To exceed $25,000. W. W. Southgate, city engr.

Ky., Clay—Making plans asphalt, concrete or brick paving various streets. N. Orcutt, O. V. Bank Bldg., Henderson, engr. Noted Jan. 24.

Ky., Greenville—Making plans resurfacing and reconstructing various streets, limestone macadam and asphalt. $50,000. C. W. Wardelle, Central City, engr.

Ky., Louisville—Plans resurfacing sections of 12th St., to exceed $25,000. Address Bd. Pub. Wks., engrs.

O., Canton—Plans improving 0.75 mi. 19th St. S. W., 25 ft., $30,000, probably asphalt, 0.75 mi. 13th St. N. E., 25 ft., $25,000; 1 mi. Columbus Ave., 30 ft., $40,000; 0.75 mi. 16th St. N. E., 20 ft., $25,000. W. E. Sarver, city engr.

O., Canton—Soon takes bids asphalt paving 0.75 mi. Plain Ave. N. E., 30 ft. $30,000. W. E. Sarver, city engr.

O., Canton—Stark Co., soon takes bids brick paving 3.374 mi. Massillon-Canton Rd., 20 ft. $183,000. A. M. Wise, Court House, engr.

O., Columbus — Making plans grading, laying necessary water services and sewer connections, and paving 522 ft. Green St., 24 ft., brick $7,095, asphalt $5,830, concrete $5,295; 550 ft. Longview Ave., 24 ft., brick $11,963, asphalt $9,811; 2,220 ft. Parsons Ave., 28 ft., brick $35,871, asphalt $26,937; 4,029 ft. Bruck St., 26 ft., brick $65,485, asphalt $50,329. R. H. Simpson, city engr.

O., New Philadelphia — Plans repaving 0.75 mi. Bway., 40 ft., probably sheet asphalt, $38,000, also 1 mi. High St., 40 ft., sheet asphalt on old brick, $60,000. G. E. Arnold, city engr.

O., Wooster—Wayne Co. plans improving 2.5 mi. Sect. J, Akron-Wooster Highway, 20 ft. $75,000.

Ind., Fowler—Benton Co. plans grading and graveling 2.7 mi. Klingert Rd., 24 ft. $26,078. D. Heaton, Fowler, engr.

Ind., Lebanon—Rejected bids hardsurfacing 11,000 sq.yd. North Meridan St., $31,000. Will readvertise. Address city engineers.

Ind., Wabash—Wabash Co., plans concrete paving 12,672 sq.yd. La Salle Rd. $29,460. H. Hartmen, Wabash, engr.

Mich., Detroit — Making plans paving with 3½ in. sheet asphalt on 8 in. concrete, 11,100 sq.yd. Pleasant St. $55,900, 790 sq.yd. Main St. Sect. 2, $4,060, 18,900 sq.yd. Fords Highway $95,000, 8,200 sq.yd. Buena Vista Ave. $41,600, 7,620 sq.yd. McDougall Ave. $38.160, 5,190 sq.yd. Wilfred Ave. $25,970, 6,000 sq.yd. Coplin Ave. $30,160, 5,100 sq.yd. Cloverdale Ave. $25,970, 3,200 sq.yd. Ford Ave. $15,080, 3,200 sq.yd. Yellowstone Ave. $16,200, 4,500 sq.yd. Fairfield Ave. Sect. 1 $22,880, 3,120 sq.yd. Lawton Ave. Sect. 2 $15,660, 3,900 sq.yd. Princeton Ave., Sect. 3 $19,760, 7,800 sq.yd. Maine Ave. Sect. 3 $39,000, 4,420 sq.yd. Indiandale Ave. $22,360, 4,550 sq.yd. Devonshire Ave. $23,260, 18,200 sq.yd. Davison Ave. Sect. 1, $91,200, 4,005 sq.yd. 3 alleys with one course concrete, $14,890. G. Jerome, city engr.

Ill., Galesburg—Bd. Local Impvts. soon takes bids grading, curbing, guttering and paving 11 blocks Blaine Ave., Arnold and West Brooks Sts. $55,930. A. L. Richey, city engr.

Ill., Highland Park—Branigar Bros., 160 North LaSalle St., Chicago, having preliminary plans prepared improving about 2 mi. Sunset Terrace sub-division, here, 27,000 sq.yd. 8 in. rein.-con. paving, integral curb, etc. Windes & Marsh, 598 Birch St., Winnetka, engrs

Wis., Beaver Dam—Making plans 50 ft. concrete bridge on South Spring St., 1 mi. of concrete curb and gutter on various streets. E. B. Parsons, Jefferson, engr.

Ia., Adel—Had plans prepared paving 10 blocks Race Court, Rapids and Church Sts., concrete, vibrolithic concrete or sheet asphalt, etc. $32,000. Capper Eng. Co., Adel, engrs.

Ia., Des Moines—Polk Co. voted $1,350,000 paving roads. F. O. Laing, co. engr. Noted May 29.

Ia., Muscatine — Muscatine Co. defeated $1,350,000 bonds June 2, paving primary road system.

Ia., Tipton—Cedar Co. defeated $2,000,000 bonds for paving primary road system. H. L. Phelps, co. engr. Noted May 29.

Ia., Waterloo—Plans paving 40 blocks and resurfacing 20 blocks various streets. R. B. Slippy, city engr.

Kan., Independence—Making preliminary plans grading and paving 4,700 ft., Walnut St. from 4th to 10th Sts., 30 ft., vitr. brick on 5 in. concrete; Pine St. from 13th to 16th Sts. Takes bids about June 28, 2,400 ft. 10 in. vitr. clay tile sewer and pumping plant with 2 motor driven pumps. G. H. Hackmaster, City Hall, engr.

Kan., Washington—Washington Co. plans grading, etc., 7.397 mi. Federal Aid Project 211, Sect. C, 28 ft. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, Mo., engr.

Neb., Omaha — Plans opening and improving 13th St. from Cuming to Lake Sts. $96,000. H. Beal, city engr.

Neb., Omaha—Making plans paving 6 mi. Florence, Turner and 11th St. Blvds. $200,000; Paving Dists. G-2371, 2473, 2521, 2541 and 2558. $25,00. H. Beal, city engr.

South Dakota—State Highway Comn., Pierre, soon takes bids grading etc. 9 mi. Federal Aid Project 186 A, Davidson Co. and 21 mi. Federal Aid Project 186, B and C, Sanborn Co. F. D. Hudgins, ch. engr.

Mo., Clinton—Making preliminary plans grading, curbing and paving with 7 in. concrete 5.300 ft. 3rd St., 27 ft. $26,000. Address City Engineer.

Ark., Camden — Quachita Co. making preliminary plans grading and gravel surfacing roads to Stephens and Smackover. $50,000. R. C. Limerick, 723 North Jackson St., Little Rock, engr.

Tex., Abilene—Voted $50,000 bonds paving various streets. O. K. Hobbs, city engr. Noted May 22.

Tex., Dallas—Oak Lawn Development Co., Magnolia Bldg., plans paving asphalt on concrete, sewers, etc., at Oak Lawn, $50,000. Engineer not announced.

Tex., Dallas — Southern Methodist University plans landscape work, walks, drives, etc., on campus. $25,000 plus. B. M. Pond, also McGinnis & McGinnis, 213 Haynie St., engrs.

Tex., Denison—Making plans paving 12 blocks Armstrong St., alternate on standard pavements. $36,000. C. E. Hayden, city engr.

Tex., Eagle Pass—Maverick Co. making plans hard surfacing State Highway 85, Eagle Pass to Dimmit Co. line. $242,000. J. G. Lott, Carrizo Springs, engr.

Tex., Galveston—Election July 15, $300,000 bonds paving and street improvements. C. A. Holt, Jr., city engr. Noted June 12.

FILTRATION PLANT—ALBANY, N. Y.

Following are lowest three bids opened by Bd. Contract & Supply, Albany, April 21, for improvements to filtration plant, (A) James J. Finn & Son, Albany, (awarded contract); (B) Whiting-Turner Constr. Co., 404 Stewart Bldg., Baltimore, Md.; (C) McCann Bldg. Co., Albany. The unit bids were as follows:

	A	B	C
20,000 cu.yd. general excavation	$1.62	$1.78	$0.82
4,000 cu.yd. rock excavation	5.11	5.00	4.00
6,000 cu.yd trench excavation	5.11	3.50	1.40
9,000 cu.yd. general fill	1.08	1.10	.80
24,000 cu.yd rolled embankment	1.62	3.66	.50
12,000 cu.yd. borrow	1.08	1.33	1.70
250 cu.yd. concrete for filling	9.03	13.02	13.00
2,600 cu.yd concrete in vaulting and piers	16.59	28.25	21.00
6,700 cu.yd. concrete in heavy walls and foundation floors	12.15	17.90	23.40
300 cu.yd. concrete in thin walls and floors	4.96	30.00	29.00
385,000 lb. steel reinforcing	.043	.059	.06
Steel pipe (lump sum)	50,824.00	31,462.00	47,000.00
26,000 lb. structural steel	.075	.10	.09
250 ton placing C. I. pipe and specials	80.00	26.50	78.25
Placing Gates (lump sum)	3,958.00	2,500.00	3,038.00
Placing 36 in. outlets (lump sum)	476.00	400.00	500.00
Drains (lump sum)	3,570.00	2,200.00	2,307.00
Sand-handling equipment (lump sum)	16,616.00	12,500.00	17,714.00
Moving aerator pump (lump sum)	1,615.50	800.00	1,000.00
330 cu.yd. brick masonry	55.03	53.70	60.00
30 cu.yd. cutting masonry	32.30	20.00	50.00
Gate house (lump sum)	4,174.50	5,500.00	5,900.00
Laboratory and alum house (lump sum)	9,516.00	8,200.00	8,500.00
Store house (lump sum)	5,273.00	4,200.00	3,400.00
Chlorine room (lump sum)	593.00	800.00	600.00
Aerator house (lump sum)	941.00	900.00	880.00
Appurtenances (lump sum)	17,458.00	9,500.00	16,000.00
Extended totals	$445,992	$446,591	$466,872

SEWER—OMAHA, NEB.

Following are lowest three bids opened by Dept. Pub. Impvt., May 16, for installing sewer in Sewer Dist. No. 854, Grace St. from 15th St., to Missouri River, (A) Jones Eng. & Constr. Co., 315 Courtney Bldg., (awarded contract); (B) Martin Day Co.; (C) Woods Bros. Constr. Co., 2nd and Pierce Sts. The unit bids were as follows:

	A	B	C
3,000 lin.ft. 6 in. v.c. pipe	$0.315	$0.50	$0.50
12 lin.ft. 33 in. v.c. pipe	19.67	5.00	10.00
183 lin.ft. 7x10 ft. reinforced-concrete sewer, Sect. X.	64.568	65.00	84.81
20 lin.ft. 7 ft. 10 in. to 6 ft. 3 in.x11 ft. 6 in. reinforced-concrete sewer, funnel	70.25	85.00	92.56
325 lin. ft. 6 ft. 3 in.x11 ft. 6 in. reinforced-concrete sewer, Sect. Y	83.136	75.00	92.95
30 lin.ft. 6 ft. 3 in.x11 ft. 6 in. to 2-7 ft. 3 in. x9 ft. reinforced-concrete sewer, funnel	144.153	150.00	133.87
1,045.5 lin.ft. 7 ft. 3 in.x9 ft. reinforced-concrete sewer, Sect. Z-1	93.05	103.00	104.35
1,448.7 lin.ft. 7 ft. 3 in.x9 ft. reinforced-concrete sewer, Sect. Z-2	82.837	89.00	93.60
Ten 5 ft. manholes	5.875	10.00	200.00
16,500 cu.yd. stripping	1.175	1.60	.65
25,000 cu.yd. embankment	.94	.50	.35
10 cu.yd. 1:2:4 concrete	17.00	20.00	25.00
6,510 lb. c.i. manhole covers	.047	.05	.05
100 tons crushed rock	3.65	3.00	6.25
30 cu.yd. 1:3:6 foundation concrete	9.18	18.00	23.00
45 slants, 12 in.	1.92	3.50	1.00
16 slants, 15 in.	2.18	3.50	1.40
10 slants, 18 in.	2.94	3.50	1.95
410,000 ft. b.m. sheet piling	75.85	75.00	115.00
Extended totals	$341,632	$354,715	$374,140

Streets and Roads (Continued)

Tex., George West—Live Oak Co. voted $586,000 bonds, improving Live Oak County Rd. Dist. 8. Address County Commissioners, Three Rivers.

Tex., Houston — J. C. Boyles, engr., Court House, soon takes bids 30 mi. grading and paving in Nettlebrook Addition, for San Jacinto Trust Co., Humble Bldg.

Tex., Houston—W. C. Branum Co., 1708 Main St., had plans prepared paving streets in Woodleigh Addition, penetration method. $25,000. Howe & Wise, First Natl. Bank, engrs.

Tex., Jacksonville—Election June 23, $100,000 bonds permanent paving various streets. H. N. Roberts, c/o County Courthouse, Lubbock, engr.

Tex., Jasper—Jasper Co. election June 21, $250,000 bonds constructing roads in Rd. Dist. 3. C. P. Hunter, co. engr.

Tex., Kountze—Hardin Co. defeated $500,000 bonds road construction in Sour Lake Dist. G. C. Brown, co. engr. Noted May 1.

Tex., Waco—Voted $250,000 bonds street paving. V. G. Koch, city engr. Noted May 15.

Okla., Alva—Making plans improving 9 blocks 7th, 8th and 9th Sts., 9,500 sq.yd. concrete, 5,500 lin.ft. curbing, 3,000 cu.yd. earth excav. $35,000. F. E. Devlin, Bitting Bldg., Wichita, Kan., engr.

Okla., Stillwater—City and Payne Co. defeated $1,000,000 bonds for roads, new election on same probably in August. G. F. Matkin, city clk.

Calif., Los Angeles—Los Angeles Co. had plans prepared improving 1.51 mi. Central Ave. between Manchester Ave. and Watts north city limits, 10,783 cu.yd. excav., 26,491 sq.yd. concrete.

Calif., Oakland — Alameda Co. making preliminary plans widening approximately 6 mi. San Leandro-Hayward Highway, asphaltic concrete on concrete. G. A. Posey, co. surv.

Calif., Sacramento—Sacramento Co. making plans graveling about 40 mi. various roads. C. W. Deterding, Jr., co. engr.

Calif., San Luis Obispo—Making revised plans improving portions Marsh, Higueroa, Toro Sts., etc., 6 in. hydrated concrete $25,000 or more. W. B. Burch, city engr.

Calif., San Jose—Santa Clara Co. making plans grading 6 mi. Mt. View-Alviso Rd. R. Chandler, co. surv.

Calif., Santa Ana—Orange Co. had plans prepared improving 2 mi. Fairview Ave., 18 ft., paving 7 in. thick in center and 9 in. at edges (county will furnish 2,700 bbl. cement). J. L. McBride, co. rd. comr. Noted Mar. 6.

Calif., Santa Ana—Had plans prepared improving Oak, Bishop and Grant Sts., 136,334 sq.ft. grading and paving with 6 in. asphaltic concrete, 2,342 ft. concrete curb, 2,647 ft. trench, 2,041 ft. 4 in. house sewers. W. G. Knox, city mgr.

Calif., Santa Barbara — Santa Barbara Co. rejected bids paving about 25 mi. roads in Santa Ynez Valley. Noted May 22.

Calif., Santa Cruz—Santa Cruz Co. making plans paving 3 mi. Coast Rd., asphaltic macadam. L. Bowman, co. surv.

Ont., Chatham—Kent Co. plans to expend $185,000 for maintenance and improving roads, gravel, macadam and concrete, also 4 mi. concrete paving Chatham-Dover Rd. and Cemetery Rd., total $300,000. W. D. Colby, Chatham, supt.

Ont., Ford—Plans cement paving Sandwich St. and Raymo Rd. $100,000. J. F. Foster, City Hall, engr.

Ont., Seaforth—Plans cement pavements. $40,000. R. Patterson, County Bldg., Goderich, engr.

Ont., Toronto—York Twp., 40 Jarvis St., plans concrete sidewalks on Arlington Ave. $12,695, Winnett Ave. $2,197, Cambrai Ave. $1,900, Inwood Ave. $1,850, Governors Rd. $2,900 Nesbitt Dr. $1,950, Cosburn Ave. $3,400, Carlaw Ave. $1,375, Delworth Crescent $2,600, North Logan Ave. $595, and Douglas Crescent $2,750 asphalt paving Nesbitt Dr. $5,224, Douglas Crescent $8,514, and Governors Rd. $3,443; grading Ashbury Ave. $3,300, Cataract Ave. $750, and Rambert Ave. $1,130. F. B. Goldike, 40 Jarvis St., engr.

Ont., Welland—See "Contracts Awarded."

B. C., Vancouver—Making plans repairing and hard surfacing city streets. $200,000. C. Brackenridge, city engr.

BIDS DESIRED

Massachusetts — July 1, by Dept. Pub. Wks., State House, Boston, concrete paving about 4,900 ft. highway, 20 ft. in Brookfield and East Brookfield. $28,000. W. F. Williams, comr.

Massachusetts—June 24, by Dept. Pub. Wks., State House, Boston, paving 4,000 ft. highway, 20 ft., in Seekonk, bituminous macadam, $25,000. W. F. Williams, comr.

Mass., Gardner — June 24, by F. W. Proctor, supt. of streets, rein.-con. paving in 2 locations; adv. E. N.-R. June 19.

Mass., Roxbury (Boston P. O.)—June 24, by Pub. Wks. Dept., City Hall, Boston, concrete paving Centre St. from John Eliot Sq. to Columbus Ave., here. $35,000. J. A. Rourke, comr.

New York—July 7, at office F. L. Merritt, clk. Bd. Supervs., Westchester Co., Court House, White Plains, 0.96 mi. Co. Rd. 22, Lexington Ave., in Mt. Kisco, and 1.03 mi. Co. Rd. 25, Main St. in Peekskill; adv. E. N.-R. June 19.

N. Y., Buffalo — June 24, by Commissioner Pub. Wks., Municipal Bldg., paving and repaving with asphalt or brick on 6 in. concrete, Harding Rd. Goodyear and Woodlawn Aves. and various other streets. C. E. P. Babcock, Municipal Bldg., engr.

N. J., Newton — July 3, by Bd. Free holders Sussex Co., grading and graveling Tranquility Andover Rd., in Green Twp. H. Snook, Newton, co. engr.; adv. E. N.-R. June 19.

N. J., Springtown (mail Bloomsbury)—June 23, by Com. Pohatcong Twp., bituminous macadam surfacing Carpentersville Rd., Warren Co. H. W. Vetter, Belvidere, engr.; adv. E. N.-R. June 19.

Pa., Phila.—June 23, by Bureau Hys., Dept. Pub. Wks., grading Schedule A, 3,269 cu.yd. Belgrade, Miller and Schiller Sts., 2,713 cu.yd. Collins St., 14,338 cu.yd. Cottman St., 113,530 cu.yd. Erie, Torresdale and Luzerne Sts., 6,886 cu.yd. Houghton and Lauriston Sts., 1,178 cu.yd. Sedgwick St., 9,859 cu.yd. Vista, Whitaker and Pennway Sts.; asphalt paving Schedule B, 1,315 sq.yd. Belmar St., 2,166 sq.yd. Columbia St., 1,314 sq.yd. Devon St., 1,175 sq.yd. Holbrook St., 5,960 sq.yd. Hortter and Phil-Ellena Sts., 3,631 sq.yd. Limekiln Pike, 1,310 sq.yd. Magnolia St., 2,557 sq.yd. Nedro St., 879 sq.yd. Sedgwick St., 636 sq.yd. Shiller St., 970 sq.yd. Theodore St., 3,504 sq.yd. 19th St.; furnishing asphalt paving mixtures, Schedule C, 1,850 tons asphalt surface and 1,850 tons asphaltic binder. G. H. Biles, dir. Pub. Wks.

Pa., Upper Darby—June 21, by H. A. Fritschman, secy. Haverford Twp., Twp. Bldg., Oakmont (upper Darby P. O.), rein.-con. paving 8,659 lin.ft. Darby Rd. and 1,000 lin.ft. Manoa Rd.; bituminous penetration paving 6,612 lin.ft. Mill Rd. and 3,151 lin.ft. Benedick Ave., all 18 ft. wide. S. Bover, Oakmont, engr.

Md., Baltimore—June 25, by Bd. Awards, grading, paving and curbing with sheet asphalt, Contr. 260-Oa and as listed in Contr. 261-OCOANA. R. K. Compton, chn. paving comn., 214 East Lexington St.

W. Va., Williamson—July 8, by Mingo Co., grading, etc. approximately 12.3 mi. Williamson-Matewan Rd., Projects 23 and 29. W. R. Hunt, Co. road engr.

S. C., Edgefield—June 24, at office Edgefield Co. Hy. Comn., grading and surfacing 5.1 mi. State Route 21, Federal Aid Project 240-A, 25,997 cu.yd. common excav., 12,818 cu.yd. sand clay, etc. State Highway Engineer, 1626 Main St., Columbia, engr.

S. C., Greenwood—June 27, by Greenwood Co. Hy. Comn., topping 7.8 mi. Federal Aid Project 236, State Route 7, 70,000 cu.yd. common and 800 cu.yd. rock excav., 24,300 cu.yd. topsoil, etc., also 220 ft. rein.-con. bridge. E. D. Sloan, Court House, Greenville, engr.

S. C., Laurens — June 26, at office Laurens Co. Hy. Comn., grading and topping 10.1 mi. State Route 7, Federal Aid Project 237, 97,665 cu.yd. common and 2,335 cu.yd. rock excav., 31,924 cu.yd. top soil, etc., also 110 ft. rein.-con. bridge. E. D. Sloan, Court House, Greenville, engr.

Fla., Sarasota—June 23, by J. R. Brumby, comr. Pub. Wks., paving and repaving various streets, 36,175 sq.yd. asphalt block, 16,750 lin.ft. concrete curb, removing 14,080 lin.ft. old curb. $80,000.

Fla., Tampa—June 24, by City Commissioners, grading and paving Harbor and McKay Sts., 8,000 sq.yd. 3 in. asphalt on 8 in. composition lime rock, 1,800 lin.ft. granite curbing, 3,600 lin.ft. granite curbing, $30,000 each. Former bids voided and revised plans made. R. D. Martin, city engr. Noted May 15.

Fla., Tavares—June 23, by Bd. Comrs. Lake Co., grading, surfacing, etc., 8 mi. highway in Leesburg Rd. & Bridge Dist., asphalt or brick. $200,000. C. R. Horn, Tavares, engr.

Alabama—State Hy. Dept., Montgomery, taking bids graveling 6 mi. Butler-Riderwood Rd., 20 ft., Choctaw Co.; gravel and rolled clay surfacing 4 mi. Troy-Montgomery Rd., 20 ft., Pike Co. W. S. Keller, highway engr.

Alabama—July 3, by State Hy. Dept., Montgomery, constructing 1.36 mi. road between Federal Aid Project 102, Chambers Co. and Alabama-Georgia line, West Point, Ga., 4,775 cu.yd. excav., 19,125 sq.yd. one-course plain cement concrete, 1,939 lb. reinforcing, 112,402 sta.yd. overhaul, also bridge, 102 cu.yd. concrete, 3,392 lb. reinforcing, 125 cu.yd. wet excav., etc. W. S. Keller, highway engr.

Ala., Birmingham — July 15, by City Comn., paving 5 blocks 7th St. S and 2nd Ave. S., asphaltic concrete on 5 in. concrete, and sheet asphalt or bitulithic on 6 in. concrete; cement sidewalks on 10 blocks 51st St.; curbing and guttering 1 block 31st St. $48,400. A. J. Hawkins, city engr.

Louisiana—June 24, by State Hy. Dept., Reymond Bldg., Baton Rouge, constructing 3.91 mi. State Project 97, Lafayette Parish.

Louisiana—July 1, by State Hy. Dept., Reymond Bldg., Baton Rouge, grading, graveling, etc., 10.8 mi. State Highway Project 107, Vermillion Parish. J. M. Fourmy, ch. engr.

La., Bastrop—June 24, by Police Jury, Morehouse Parish, grading and gravel surfacing 15 mi. Rd. 17, Sects. A and C, also Rd. 13, Sects. A and B.

O., Bexley (Columbus P. O.)—June 23, by Jennings-Lawrence Co., engrs., Hartman Bldg., Columbus, paving 2,700 ft. Bexley Dr., 24 ft., for city.

Ind., Bluffton—June 25, by Comrs. Wells Co., 8-in. crushed stone surfacing 7,080 ft. Millington Rd., 18 ft. $26,000. C. Devenport, Bluffton, engr.

Ind., Bluffton—June 25, by Comrs. Wells Co., concrete paving 8,128 sq.yd. Frazier Rd. $28,900. C. Devenport, Bluffton, engr.

Ind., Bluffton—June 27, by Comrs. Wells Co., grading and graveling 2.7 mi. Bowman Rd., 20 ft. $28,751. C. Devenport, city engr. Noted June 12.

Ind., Brownstown—June 27, by Town Bd. of Trustees, paving 6,714 sq.yd. Walnut St., concrete. Address City Engineer. Noted June 12.

Ind., Crown Point—June 27, by Comrs. Lake Co., concrete paving 108,190 sq.yd. Simpson Rd. and 62,154 sq.yd. Gleason Rd., $280,500 and $162,000 respectively; grading and graveling 2 mi. Bothwell Rd. 20 ft., $26,700. C. K. Wallace, Crown Point, engr. Noted June 12.

Ind., Elkhart—June 25, by Bd. Pub. Wks,. hardsurfacing 0.75 mi. Kilbourn St., 30 ft. $27,500. Address City Engineer.

Ind., Marion—June 30, by Comrs. Grant Co., concrete paving 41,756 sq.yd. Schoffield Rd. $108,567. G. Steffins, Marion, engr.

Ind., Petersburg—July 8, by Comrs. Pike Co., 8 in. crushed rock surfacing, 10,500 ft. Chamness Rd., 24 ft. $27,000. E. Morton, Petersburg, engr.

Ind., South Bend—June 30, by Comrs. St. Joseph Co., concrete paving 13,928 sq. yd. Le Brehmer Rd. $36,213. P. R. Gillin, South Bend, engr.

Ind., Williamsport—June 28, by Comrs. Warren Co., concrete paving 11,268 sq.yd. Judy Rd., $26,401. J. R. Gregory, Williamsport, engr.

Wisconsin—June 24, by State Hy. Comn., and Lafayette Co. Hy. Com., at office G. H. Priestley, highway comr., Court House Darlington, relocating 11,000 ft. Five Points-Wiota Rd., Appropriation 284, 0.1 acre clearing and grubbing, 11,008 cu.yd. earth, 1,600 cu.yd. loose rock and 300 cu.yd. solid rock excav., 1,329 cu.yd. borrow, 6,700 lin. ft. intercepting ditch, etc.; 3.2 mi. Shullsburg-Monroe Rd., Federal Aid Project 374-A, 16,785 cu.yd. earth, 2,750 cu.yd. loose rock and 1,050 cu.yd. solid rock excav., 1,145 cu.yd. borrow, 12,608 lin. ft. intercepting ditch, 307 cu.yd. concrete in bridge, 503 cu.yd. channel change, etc. J. T. Donahey, acting highway engr.

Wisconsin—June 24, by State Hy. Comn., at office Div. 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, concrete surfacing, etc., 40,597 sq.yd. Stevens Point-Plainfield Rd., Federal Aid Project 350, Portage Co., J. T. Donaghey, acting state highway engr.

Wisconsin—June 26, by State Hy. Comn. at office Div. 8, 1st Natl. Bank Bldg., superior, grading and gravel surfacing, etc., 2.71 mi., Canton-Bruce Rd., Federal Aid Project 174, Rusk Co.; 5.64 mi. Spooner-Minong Rd., Federal Aid Project 377-A, Washburn Co. J. T. Donaghey, acting state highway engr.

Wis., Waupun—June 27, by R. Zimmermann, city clk., improving State, Franklin, Jefferson, Brown, Mill, Forest and Drummond Sts., 22,000 lin.ft. concrete curbing and guttering, 3,000 cu.yd. excav., 760 ft. 15 in. and 100 ft. 12 in. storm sewer, 31 catchbasins. $25,000. E. B. Parsons, Jefferson, engr.

Ia., Allison—June 24, W. C. Shepard, city clk., approximately 10,000 sq.yd. various types paving. R. B. Slippy Eng. Corp., 406 Lafayette Bldg., Waterloo, engrs.

Minn., Grand Rapids—July 1, by T. Erskine, aud. Itasca Co., Job 2401 State Rd. 8, 40,950 cu.yd. earth, 2,730 cu.yd. loose rock and 1,830 cu.yd. solid rock excav., etc. $28,000. H. A. LeSueur, Grand Rapids, engr.

Kan., Osborne—July 11, by Clerk Osborne Co., improving 4.273 mi. Federal Aid Project 170-B, 9,647 sq.yd. feather edge gravel, 23,404 cu.yd. excav., 20,803 lb. reinforcing, 364 ft. 18- to 30-in. rein.-con.

Streets and Roads (Continued)

pipe, etc. E. E. Clark, co. engr. Noted June 12.

N. D., Schafer—June 30, by H. H. Johnson, aud. McKenzie Co., improving, 10.761 mi. Federal Aid Project 237, 76,679 cu.yd. earth and 7,440 cu.yd. rock excav., 16,351 cu.yd. overhaul, 2,228 lin. ft. of 18- to 36-in. corrugated metal or concrete pipe culvert; 406.06 cu.yd. Class A concrete, etc $32,000.

Wyoming—June 24, by State Hy. Comn., Cheyenne, **(F. A. P. means Federal Aid Project)**, grading and surfacing 3.4 mi. Casper Shoshoni Rd., F. A. P. 168 A, $40,500, and 8.5 mi. Casper-Rawlins Rd., F. A. P. 164 A, $95,000, both 24 ft. in Natrona Co., C. H. Lowman, Casper, engr.; grading, curbing and placing 16,600 sq.yd. one course concrete paving on 1.4 mi. Yellowstone Highway, near Thermopolis, F. A. P. 169, 32 ft., Hot Springs Co., $69,000, R. L. Silver, Basin, engr.; grading 12.9 mi. Jackson Moran Rd., F. A. P. 163 A, 24 ft., Teton Co., $64,000, R. J. Templeton, Rock Springs, engr.

Missouri—June 24, by State Hy. Bd., Jefferson City, grading 8.733 mi. 26 ft. road in Bates Co., 18.803 mi. 30 ft. road in St. Francois and Jefferson Counties; graveling 3.835 mi. 18 ft. road, Audrain Co., 2.185 mi. 16 ft. road, Mississippi Co., 16.217 mi. 12 ft. road, Cedar and Douglas Counties. B. H. Piepmeier, ch. engr.

Ark., Little Rock—June 26, by Comrs. Paving Dist. 384, at office of A. M. Lund, engr., 527 Southern Trust Bldg., 3,900 ft. new concrete curb, 2,800 ft. reset stone curb, 6,900 sq.yd. concrete gutters, 120 ft. 12 in., and 700 ft. 15 in. storm sewers, 20,400 sq.yd. asphalt on concrete or 27,300 sq.yd. concrete (alternate).

Ark., Pine Bluff—July 2, at Chamber of Commerce, reinforced or vibrolithic concrete paving, curbing, storm sewers, etc. Guest Eng. Co., 207½ Main St., engrs.; adv. E. N.-R. June 19.

Tex., Carthage—June 27, by Titus & Dillon, engrs., Carthage, grading and bridging State Highway 43-A, Rd. Dist. 1, 81,000 yd. excav., 45,000 yd. borrow, etc., for Panola Co. $110,000.

Tex., Houston—J. S. Boyles, engr., Court House, taking bids 9,500 sq.yd. concrete paving Dearborn Pl., for H. E. Tomlinson, Grand Apartments. $27,000.

Calif., Hillsborough — July 1, by City Trustees, improving various streets, 66,500 sq.ft. 5 in. concrete, 44,500 sq.ft. 1½ in. Topeka surface on macadam, 20,600 sq.ft. 4 in. macadam, etc. W. C. Hammatt, Hearst Bldg., San Francisco, consult. engr.

Calif., Martinez — July 7, by Supervs. Contra Costa Co., improving highway from Giant to San Pablo Tank Farm, 108,561 sq. ft. 4½ in. asphaltic concrete, 2,100 cu.yd. embankment; 1¼ mi. Concord-Avon Rd., 1,200 cu.yd. excav., 88,240 sq.ft. asphaltic macadam, 2,500 tons rock, 1 gal. oil to each sq.yd. of pavement. R. R. Arnold, co. surv. Noted June 5.

Calif., San Jose — July 7, by Supervs. Santa Clara Co., paving El Monte Ave., Rd. Dist. 5, 168,807 sq.ft. oil macadam; Monterey St. in Morgan Hill, 75,880 sq.ft. oil macadam, 138,000 sq.ft. resurfacing. R. Chandler, co. surv.

Ont., Waterloo—L. F. Dietrich, chn. Bd. Wks., taking bids constructing 32,000 sq. yd. asphalt pavements, and 11,000 lin.ft. curbs and gutters. $60,000. C. Moogk, City Hall, engr.

BIDS RECEIVED

Massachusetts—Dept. Pub. Wks., Div. of Highways, State House, Boston, improving highway in Reading, North Reading, and Andover, with bitulithic macadam, from R. H. Newell Co., Uxbridge, $52,933. Noted June 5.

Mass., East Boston (Boston P. O.)—Dept. Pub. Wks., Boston, granite block paving Border St., from Boston Contg. Co., Inc. Everett St., $35,069. Noted June 5.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., City Hall, Boston, bitulithic paving Grove St., from Centre to Washington Sts., here, from S. J. Tomassello, 11 Cushing Terrace, Dorchester, $57,859. Noted June 5.

Mass., Wareham—Dept. of Pub. Wks., Div. Highways, State House, Boston, 16,600 ft. highway, here, from Lane Constr. Co., 37 Colony St., Meridan, Conn., $160,950.

New York—A. W. Brandt, comr. highways, Albany, **(e. e. means engrs. est.)**, constructing and reconstructing 1.43 mi. Repair Contr. 1413, State Line-Orangeburg Rd., Rockland Co., from Vanbro Constr. Corp., 24 Elizabeth St., West New Brighton, S. I., $66,789, e. e. $72,547; 0.93 mi. Repair Contr. 3081, Catskill-Athens Rd., Greene Co., from Glenbeigh Contg. Co., New York City, $38,094, e. e. $39,279; 2.34 mi. Highway 1691, Liberty-Woodbourne Rd., Sullivan Co. from Frissell & Claeys Co. Inc., Port Jervis, $109,494, e. e. $119,494; 1.69 mi. Repair Contr. 3082, Riverside-Chestertown Rd., Warren Co., from Ellis Constr. Co., Melrose, Mass., $89,350, e. e. $93,581; 8.98 mi. Highway 8180, Old Forge-Eagle Bays Rd., Herkimer Rd., from Graham & Stevenson, Inc., Albany, $386,122, e. e. $415,192; 0.44 mi. Repair Contr. 1414, Coxsackie-Ravena Rd., Greene Co., from A. A. Howard, Fairport, $16,819, e. e. $21,140; 2.75 mi. Repair Contr. 1411, Malta-Mechanicsville Rd., Saratoga Co., from J. B. Dower, Ballston Spa, $122,521, e. e. $135,201; 0.49 mi. Repair Contr. 1415, Delaware-Turnpike Rd., Albany Co., from P. H. Murray, Troy, $29,662, e. e. $29,882; 1.1 mi. Highway 1692, Mecklenburg-Ithaca Rd., Schuyler Co., from Di Pillo & Balistreri Constr. Co., Geneva, $48,805, e. e. $56,067; 5.6 mi. Repair Contr. 1412, Castle Creek Rd., Broome Co., from J. F. Paddelford, Sherburne, $238,134, e. e. $269,439; 2.37 mi. Repair Contr. 3073, Geneva-Canandaigua Rd., Ontario Co., from G. W. Chambers, Powers Bldg., Rochester, $105,245, e. e. $119,751; 4.63 mi. Highway 1689, Tully-Onondaga Castle Rd., Onondaga Co., from Mondo Constr. Co., City Bank Bldg., Syracuse, $205,093, e. e. $227,118; 3.92 mi. Highway 1684, Dundee-Hammondsport Rd., Yates Co., from Lane Constr. Corp., 37 Colony St., Meriden, Conn., $184,953, e. e. $200,713. Noted May 22.

N. Y., Brooklyn—E. Riegelmann, boro. pres. Boro. Hall, from Uvalde Asphalt Paving Co., 7 Bway., New York, repaving Bushwick Ave. $5,138, Osborn St., $13,669, Pitkin Ave. $15,193, paving and repaving Farragut Rd. $41,289, paving with Malta St. $8,040 all asphalt; from C. Bennett Contg. Co., 414 Rutland Rd., grading curbing and flagging East 17th St. $8,382; from Glacer Contg. Co., 745 Dean St., grading curbing and flagging East 15th St. $6,153, West 9th St. $2,598; from Cranford Co., 52 9th St., repaving 85th St., asphalt $9,141; from Hastings Paving Co., 25 Broad St., New York repaving Troutman St., asphalt block, $10,489; from F. J. Gallagher, 490 Park Pl., paving and repaving Marginal St., granite block $79,494. Noted June 5.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., June 10, from Asphalt Constr. Co., 208 Bway., repaving with granite block on concrete Boscobel Ave., $135,746, asphalt paving East 175th St. $22,971, repaving with granite block roadway of East 163rd St. $18,402; from Burnside Contg. Co., 270 Burnside Ave., asphalt paving East 165th St. $87,175; from Regan Towers Inc., 124 West 121st St., repaving with granite block on concrete Boston Rd. $18,983, East 175th St. $92,015; from J. V. Timoney Constr. Co., 220 East 201st St., sewers in West 230th St. $47,181, LaSalle Ave. $8,386, West 256th St. $20,525. Noted June 5.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., from W. J. Fitzgerald, 547 West 45th St., widening and repaving with sheet asphalt Madison Ave. $52,114; from Asphalt Constr. Co., 208 Bway., curbing, recurbing and sheet asphalt paving Haven Ave. $37,165, repaving with granite block 44th St. $21,323; from D. J. McCarthy, 149 East 48th St., grading, curbing and flagging West 186th St., $5,615; from T. A. Reilly Co., 48 East 41st St., altering and improving sewer in Cedar St. $7,255; from W. M. Duffy, grading Chittenden Ave. $4,102. Noted June 5.

N. J., New Brunswick—Middlesex Co., reconstructing Monmouth Junction-Kingston Rd., concrete, from A. Keyes, 130 Rahway St., Woodbridge, $26,745.

Pa., Phila.—Bureau Hys., Dept. Pub. Wks. grading, Schedule A, from J. F. Nolan & Sons, 64 Church Lane, Champlost, Fairhill, Nedro, Spencer and 3rd Sts., $11,482, from Ferrante & Cellucci, 16th and Dickinon Sts., Sheldon St. $3,341, from E. A. Mullen, Inc., 5512 Vine St., Warrington St. $1,877, from Morrissey Bros., 4345 North 7th and 13th Sts. $1,648; asphalt paving, Schedule B, from Eastern Paving Co., 402 Colonial Trust Bldg., Diamond, Grange Lippincott and Wheeler Sts., $24,807, asphalt repaving Schedule C, Ellsworth, Wharton, Gordon, Marshall and 23rd Sts., $46,864; redressed granite block repaving Schedule D, from J. Meehan & Son, 916 West Dakota St., Brown and Lehigh (track area) Sts., $22,410; repairing and resurfacing asphalt streets, Schedule E, from Barker Asphalt Co., 239 North 30th St., $156,475, from Union Paving Co., 306 Locust St., $300 065; repairing, surfacing and resurfacing country roads, Schedule F, from A. J. Henderson, 5807 Chew St., $23,056; improving League Island Park Bathing Pool, Schedule G, from E. Foy & Son, 2 South Mole St., $13,898.

Pa., Upper Darby—One course rein.-con. paving 81.000 sq.yd. Landsdoone Ave., Marshall, Garrett and Burmont Rds., from Union Paving Co., 30th and Lane Sts., Phila., $265,680, also $2 for unclassified excav. Noted May 29.

Maryland—State Rds. Comn., Baltimore, concrete paving 2.14 mi. highway in Cecil Co., Contr. Ce-46, from Broad Creek Constr. Co., Elkton, $61,080, 1.3 mi. in Kent Co., Constr. K-25, from Kaufman Constr. Co., Denton, $33,528, 1.5 mi. in Queene Annes Co., Constr. Q-28, from C. Webster Constr. Co., East New Market, $35,151, 1.17 mi. in Caroline Co., Constr. Co-35, from Holt Constr. Co., Federalsburg, $29,515; macadam resurfacing 1.04 mi. in Harford Co., Contr. H-40, from T. P. Murray, Towson, $17,708; 4.6 mi. penetration macadam resurfacing and concrete shoul-

BRIDGE—SPRINGFIELD, MASS.

Following are lowest three bids opened by City of Springfield and Town of West Springfield, March 25, for North End Bridge over Connecticut River at Springfield, Contr. No. 1, (A) P. T. Cox Contg. Co., 154 Nassau St., New York City, (awarded contract); (B) T. Stuart & Son's Co.; (C) Frederick Snare, 114 Liberty St., New York City, Contr. No. 2, (A) American Bridge Co., 71 Broadway, New York City, (awarded contract); (B) Frederick Snare; (C) Phoenix Bridge Co., Phoenixville, Pa. The unit bids were as follows:

Contract No. 1	A	B	C
Removal of existing superstructure (lump sum)	$7,600.00	$5,000.00	$6,500.00
Removal and replacing of rip-rap (lump sum)	12,500.00	5,000.00	16,000.00
1,770 cu.yd. masonry removed	4.00	15.00	6.00
2 grillages removed	1,515.00	3,000.00	2,500.00
200 foundation piles removed	10.50	10.00	11.00
2,720 cu.ud. concrete in bases of piers	35.00	37.00	45.00
1,910 cu.yd. concrete in bases of abutments	35.00	42.00	47.00
3,210 cu.yd. concrete in shafts of piers	20.00	21.00	20.00
1,510 cu.yd. concrete in abutments	20.00	30.00	26.00
620 cu.yd. concrete in retaining walls	18.40	30.00	26.00
2,500 cu.yd. excavation for abutments	2.50	1.00	4.00
29,000 lin.ft. timber piles below bases	.70	.50	.75
6,000 lin.ft. pile cut-offs	.40	.40	.35
250,000 lb. reinforcing steel	.07	.055	.06
12,000 lb. structural metal protection piles	.10	.10	.16
4,000 cu.yd. embankment west approach	1.25	1.20	1.75
Removing debris (lump sum)	1,000.00	1,000.00	2,000.00
Extended totals	$353,818	$396,870	$431,840

Contract No. 2	A	B	C
6,480,000 lb. structural metal	$0.064	$0.068	$0.0697
1,960 cu.yd concrete in slabs	27.00	31.00	28.40
250,000 lb. reinforcing steel	.0525	.05	.063
67,000 sq.ft. waterproofing	.15	.15	.168
22,000 sq.ft. waterproofing protection	.05	.20	.0525
45,000 sq.ft. concrete protection course	.11	.12	.116
2,330 lin.ft. conduit line	1.00	1.50	1.05
2,720 sq.yd. paving base on approach	2.75	2.75	2.90
1,020 lin.ft. new curbs	1.00	1.50	1.05
390 sq.yd. sidewalk slabs on approach	2.75	3.20	2.90
380 lin.ft. concrete handrails on abutments	8.50	9.00	9.50
30 combination light and trolley poles	87.50	160.00	133.00
8 light poles on abutments	309.00	100.00	370.00
2,470 lin.ft. conduits for lighting system	.75	1.50	1.00
2 bronze name plates	212.00	300.00	300.00
Removing debris (lump sum)	1,000.00	500.00	1,100.00
Extended totals	$520,371	$561,328	$567,968

Streets and Roads (Continued)

ders in Baltimore Co., Contr. B-63, from F. D. Carrozza, Notre Dame Ave., Govans, $104,606; 1.88 mi. gravel surfacing in Anne Arundel Co., Contr. AA-41, from J. J. Stehle, Annapolis, $19,375. Noted May 29.

D. C., Wash.—Dist Comrs., approximately 35,000 sq.yd. cement sidewalks in various streets, all sections of city, from G. B. Mullin Co., 1296 Upshur Ave., $2.08, alternate $2.21 per sq.yd.

Fla., Tampa — Hillsborough Co., improving Seawall Blvd., 13,000 ft. concrete handrail, 13,850 sq.yd. sidewalk, 26,000 lin.ft. concrete curb, from Erler Corp., (by B. B. Logan, agt.), Tampa, $46,000. Noted May 1 under "Unclassified."

Kentucky—State Hy. Dept., Frankfort, constructing 19.22 mi. Henderson-Madisonville Rd., 18 ft., Federal Aid Project 34 F, Webster Co., from A. J. Hoffman, North Adams, Mich., $222,879; surfacing 4.8 mi. Versailles-Lawrenceburg Rd., 14 ft., State Project 20-D, Woodford Co., from Karrick & Sable, Newton, $32,044, 6.1 mi. Elizabethtown-Leitchfield Rd., 12 ft., State Project 12-G-1, Hardin Co., from W. P. Routt, Sonora, $18,911, 3.5 mi. Emminence-Shelbyville Rd., 14 ft., Henry and Shelby Counties, from B. W. Gorham, Harp & Innes Park, Lexington, $47,309, all waterbound macadam; waterbound macadam or bank gravel surfacing 10 mi. Madisonville-Hopkinsville Rd., 14 ft., Christian Co., from F. C. Garrell, Russelville, bank gravel $97,960, N. E. Stone & Co., Madisonville, waterbound macadam $109,368; reconstructing 3.5 mi. Danville-Stanford Rd., 16 ft., State Project 22-F, Lincoln Co., waterbound macadam, from Taylor Bros., $36,736. Noted May 29.

O., Shaker Heights (Cleveland P. O.)—Improving **(a)** East 156th St., **(b)** Norwood Rd. **(c)** Milverton Rd., 11,175 sq.yd. asphaltic concrete, 6,550 lin. ft. stone curbing, 97,575 sq.ft. concrete base from Rieley Bros., The Arcade, Cleveland, **(a)** $12,448 **(b)** $34,152 **(c)** $25,845.

Ind., Richmond — Wayne Co., concrete paving, Henley Rd., from Mannix Bros., Greenville, O., $85,623. Engrs. est. $96,765.

Michigan — State Hy. Dept. at office Comrs. Huron Co., Bad Axe, grading and surfacing 0.496 mi. State Trunk Line Rd. 53-16, 3,989 cu.yd. excav., 10,121 sq.yd. concrete, from Schultz & Liken, Sebewaing, $25,625. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Ionia Co., Ionia, shaping and surfacing 3.34 mi. State Trunk Line Rd. 43-3, 31,675 sq.yd. gravel, from Todd & Montgomery, Sparta, $19,353. Noted May 22.

Michigan—State Hy. Dept., at office Comrs. Kalkaska Co., Kalkaska, grading and surfacing 5.32 mi. State Trunk Line Rd. 66-17, A, 73,349 cu.yd. excav., 49,956 sq.yd. gravel, from Bad Axe Constr. Co., Bad Axe, $64,423; 1.56 mi. State Trunk Line Rd. 66-17, B, 9,560 cu.yd. excav., 15,441 sq.yd. gravel from J. Davison & Sons, Farwell, $11,223. Noted May 22.

Michigan—State Hy. Dept. at office Comrs. Mason Co., Ludington, grading and surfacing 7.493 mi. State Trunk Line Rd. 11-61, A, 39,312 cu.yd. excav., 79,128 sq.yd. concrete, and 8.268 mi. State Trunk Line Rd. 11-61, B, 50,173 cu.yd. excav., 87,773 sq.yd. concrete, from Rogers & Monroe, Muskegon, $148,625 and $172,964 respectively. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Manistee Co., Ludington, grading and surfacing 0.999 mi. State Trunk Line Rd. 11-61, A, 7,701 cu.yd. excav., 10,553 sq.yd. concrete, from L. I. Goldberg, Scottville, $24,081. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Ontonagon Co., Ontonagon, grading and surfacing 8.406 mi. State Trunk Line Rd. 28-10, A, 62,688 cu.yd. excav., 29,516 tons stamp sand, from C. G. Bridges, Norway, $97,743. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Lenawee and Washtenaw Counties, Adrian, grading and surfacing 5.734 mi. Federal Aid Project 95 A, 33,039 cu.yd. excav., 58,724 sq.yd. concrete, from Lewis & Freissinger, Albion, $128,263. Noted May 22.

Michigan — State Hy. Dept. at office Comrs. Montcalm Co., Stanton, shaping and surfacing 5.523 mi. State Trunk Line Rd. 43-4, 51,923 sq.yd. gravel, from R. Sisco, Flint, $35,255. Noted May 22.

Ia., Sioux City—From Booth & Olson, 120 Virginia St., about 22,540 sq.yd. 6 in. concrete paving, 11,535 lin.ft. curbing Riverside Blvd. at $2.17 per sq.yd.

Tex., Carrizo Springs—Dimmit Co., grading and surfacing with shell and gravel, etc., 12.58 mi. State Highway 85, State Aid Project 483, 682 cu.yd. concrete, 60,265 cu.yd. roadway and 37,234 cu.yd. borrow excav., 68,195 lb. reinforcing. (18,699 cu.yd. gravel and 10,807 cu.yd. shell furnished by owner), from Evans & Greathouse, 1706 West 6th St., Austin, $59,596. Engr. est. $76,011.

Tex., Franklin—Robertson Co., grading, etc., 10.87 mi. State Highway 6, Hearne-Benchly Rd., 1,208 cu.yd. concrete, 111,557 cu.yd. roadway and 41,967 cu.yd. borrow excav., 3,400 lin.ft. concrete piling, 156,876 lb. reinforcing, etc., from F. P. McElwrath, Corsicana, $94,637. Engrs. est. $98,000. Noted May 22.

Colo., Denver—From Allied Contractors, Omaha, Neb. **(e.e. means engrs. est.)** asphalt paving 12 blocks South Capitol Hill Paving Dist. 3, $40,127, e.e. $43,223, 12 blocks South Denver Paving Dist. 1, $74,713, e.e. $79,652, 12 blocks South Denver Paving Dist. 4, $38,803, e.e. $42,742; from Western Paving & Constr. Co., International Trust Bldg., 12 blocks Capitol Hill Paving Dist. 6, $40,087, e.e. $42,951, 12 blocks Capitol Hill Paving Dist. 12, $37,659, e.e. $41,757, 12 blocks Capitol Hill Paving Dist. 13, $51,285, e.e. $56,476, 12 blocks Capitol Hill Paving Dist. 14, $40,246, e.e. $44,075; from New Mexico Constr. Co., Albuquerque, N. M., 12 blocks North Denver Paving Dist. 6, $47,314, e.e. $49,555, 12 blocks Capitol Hill Paving Dist. 3, $36,331, e.e. $43,223.

Wash., Seattle—Concrete paving Evanston Ave., etc., **(1)** roadway **(2)** street railway, from J. L. Smith, Pioneer Bldg., **(1)** $249,468 **(2)** $52,120; from Fiorito Bros., 3950 6th St. N. W., **(1)** $262,025 **(2)** $51,540.

Calif., Ontario—Grading, asphaltic concrete paving portion Vine St., also asphaltic concrete paving, curbs, etc., on Laurel Ave., etc., from Southwest Paving Co., Washington Bldg., Los Angeles, $64,705 and $32,215 respectively. Noted June 5.

Calif., Richmond — Improving McLaughlin, Lassen Sts., etc., 9,440 cu.yd. excav., 3,163 cu.yd. fill, 242,813 sq.ft. 8 in. Richmond standard macadam, 86,943 sq.ft. walks, 32,905 sq.ft. gutters, 16,896 ft. concrete curb, etc., from Hutchinson Co., 1706 Bway., Oakland, $78,226. Noted June 5.

Calif., San Diego—Improving Columbia and Maple Sts., from California Constr. Co., Union Bldg., 72,027 sq.ft. 2 in. asphaltic concrete on 3 in. bituminous $0.179 per sq.ft., 184,307 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous $0.165, 11,949 sq.ft. concrete sidewalks $0.24, 2,710 lin.ft. concrete curb $0.68, total $49,695. Noted May 1.

Calif., Sonora—Tuolumne Co. improving roads from Tuolumne to Sonora and from Columbia to Sonora, 15,801 lin.ft. subgrade, 241,200 ft. 2 in. paving, from A. J. Grier, 480 Chetwood St., Oakland, asphaltic macadam $27,712; F. L. Carson, Exposition Bldg., San Francisco, willite $40,887, asphaltic concrete $39,681; Standard Paving Co., Modesto, warrenite $45,660. Noted Sept. 27.

Calif., Suisun City — Paving various streets, asphalt, from J. A. Costello, Jr., 564 Market St., San Francisco, approximately $24,765. Noted May 29.

Calif., Vacaville — Improving various streets, 313,000 sq.ft. 2½- to 4½-in. willite surfacing, from California Constr. Co., 58 2nd St., San Francisco, approximately $80,000.

CONTRACTS AWARDED

Vt., Montpelier—Dept. Hys., paving main highways, bituminous macadam, to Chester-Earle & Murray, Rutland, $60,535.

Mass., Quincy—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, grading, surfacing, constructing bridge, etc. on Furnace Brook Parkway from Hancock St. to Newport Ave., here, to A. G. Tomassello & Son, 68 Devonshire St., Boston, $95,847. Noted May 29.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, repaving with granite, roadway of Concord St., to F. J. Gallagher, 490 Park Pl., $13,880; repaving with asphalt DeKalb Ave., to Uvalde Asphalt Paving Co., 1 Bway., New York, $16,116, laying cement sidewalks on Havemeyer St., to Navy Constr. Co., 182 Navy St., $641; grading, curbing and flagging 15th Ave., to Grimm Contg. Co., 170 McKinley St., $3,188; repaving with asphalt 86th St., to Cranford Co., 52 9th St., $47,731. Noted June 5.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Municipal Bldg., 3rd and Tremont Aves., paving where not already paved and repaving with granite blocks Prospect Ave. from East 149th to East 163rd Sts., and from 163rd St. to Boston Rd., to Leonard Paving Co., 233 Bway., $220,588 and $243,692 respectively. Noted June 5.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving with granite block Richmond Ave., to J. Johnson Sons, 455 Bway., West New Brighton, $91,664. Noted June 5.

N. J., Freehold—Monmouth Co., concrete paving 2.62 mi. Atlantic Highlands-Campbell's Junction Rd., to Jannarone Contg. Co., 225 Passaic Ave., Belleville, $132,060. Noted May 22.

N. J., Mt. Holly—Burlington Co. paving 21,502 sq.yd. Kings Highway, asphalt, to Union Paving Co., 30th and Locust Sts., Phila., $93,031. Noted May 22.

Pa., Meadville—Grading and brick paving 5,200 yd. on 5 in. concrete, to Keystone Constr. Co., Meadville, $3.52 per sq.yd. Noted May 22.

Pa., Wayne—Com. Radner Twp., Maguire Bldg., widening and bituminous macadam surfacing approximately 29,000 sq.yd. Bryn Maur Ave. from Lower Merion Twp. line to Radner and Chester Rds., to Good Roads Co., Commercial Bldg., Phila., $53,760.

Md., Baltimore—Concrete paving Alley Contr. 94, to J. J. Bresnan & Co., 1626 Bank St., $34,337. Noted June 5.

W. Va., Beckley—Raleigh Co., grading and tarvia paving Slab Fork-Tams Mountain Rd., to Waugh Bros., Fayetteville, $39,396, Besoco-Oak Rd., and Besoco-Amigo Rd., both asphalt, to J. Randish, Beckley, $63,251 and $95,106 respectively; grading Amigo-Egeria Rd., to J. F. Rothwell, Beckley, $39,707. Noted May 15.

S. C., Saluda—Saluda Co. topsoiling 9 mi. Federal Aid Project 52-B, to B. A. Watkins, Troy, N. C., $45,280; 2 concrete bridges on same, to Latimer & Peake, Ft. Mill, $14,102. Noted May 20.

S. C., Sumter—Sumter Co. constructing 4.41 mi. Federal Aid Project 228, sheet asphalt on concrete, to Pritchard, Raines & Hazelhurst Constr. Co., Savannah, Ga., $142,145. Noted May 25.

Fla., Bradentown—Palma Sala Corp. improving streets in Palma Sala Park, 5½ mi. 16 ft. paving with shell, concrete curb, to H. R. Curry, Bradentown, $41,000; 10 mi. concrete sidewalks, to Shirley & Mattison, Bradentown, $34,000.

Alabama—State Hy. Dept., Montgomery, to Wofford & Co., Dothan, improving approximately 12 mi. highway between Louisville and Clayton, 20 ft., grading, graveling and rolled clay, $86,189, several small bridges $4,485. Noted May 15.

Ala., Birmingham—City and Jefferson Co. asphalt paving 2 mi. Pratt City-Birmingham Rd., 30 ft., and 0.5 mi. East Thomas-Joseph St., to Morgan Hill Paving Co., Amer. Trust Bldg., $87,000. Engrs. est. $70,000.

Ala., Birmingham—Brick paving between street railway tracks 18 blocks 2nd Ave. S., 6th St. S. and Ave. C (Ensley), to Birmingham Electric Co., 4105 1st Ave., $34,385, engrs. est. $35,000; asphalt paving 4 blocks 46th St. (Ensley), 30 ft., to Morgan Hill Paving Co., Amer. Trust Bldg., $18,362, engrs. est. $20,000, 7 blocks 2nd Ave. S. and 16th St. S., 30 ft., to Dunn Constr. Co., Lincoln Bldg., $35,555, engrs. est. $36,000, 5 blocks 7th Ave. N., 30 ft., to H. N. Bowdry, Empire Bldg., $27,542, engrs. est. $28,000. Noted May 22 and 29.

Ala., Huntsville — Asphalt paving 5 blocks Randolph St., 30 ft., to Lasley Bros., Chattanooga, Tenn., $29,040. Engrs. est. $30,000. Noted Apr. 10.

Ala., Huntsville—Madison Co. concrete paving 2.25 mi. West Clinton St., to Newell Constr. Co., 3828 Ave. A, Birmingham, $58,899. Noted May 15.

La., Bastrop — Police Jury Morehouse Parish, grading, and gravel surfacing 14.2 mi. Sects. A and C Parish Rd. 7, to Tansey-Cavett Constr. Co., Box 123, Shreveport, $135,000. Noted May 15.

La., Leesville—Grading and gravel surfacing roads in Ward 3, Vernon Parish, to B. Smith, Jr., Alexandria, $160,000.

Tenn., Nashville—Will grade, oil and surface treatment Ligon, Argyle, 18th, and 19th Aves., Crawford and 1st Sts., by day labor. To exceed $25,000. W. W. Southgate, city engr.

Ky., Ashland—Bituminous macadam surfacing 2nd St., to S. L. Steel, Ashland. Engrs. est. to exceed $25,000.

Ohio—City of Columbus, relocating about 5 mi. Kelley Rd. from Girls Industrial School near Delaware north to Bellpoint (Powell P. O.), 24 ft., to J. C. MacCann, Columbus, $84,846.

Ohio—Dept. Highways and Pub. Wks., Columbus, to F. D. Francis, Columbus, paving 2.005 mi. Sect. "G-2" and 4.687 mi. Sect. "H" Cambridge-New Comerstown Rd., Guernsey Co., asphaltic macadam, $54,007 and $154,946 respectively; to P. B. Putnam, Van Wert, 3.674 mi. Sect. "A," and 2.109 mi. Sect. "F-2" Bellefontaine-Richwood Rd., Logan Co., asphaltic macadam, $80,512 and $46,619 respectively, 6.174 mi. Sects. "K" and "M" Bryan-Pioneer Rd., Williams Co., bituminous macadam, asphalt $82,637, 4.48 mi. Sect. "N" and "L" Bryan-Pioneer Rd., Williams Co., bituminous macadam, tar $59,189; to Wapakoneta Cement Block Co., Wapakoneta, 3.308 mi. Sects. "C-1" and "C-2," 1.6589 mi. Sect. "B," and 0.0647 mi. Sect. "West Milton" Dayton-Covington Rd., Miami Co., rein.-con., $96,761, $39,024 and $1,961 respectively; to J. F. Stam-

Streets and Roads (Continued)

baugh, Ada, 3.513 mi. Sect. "G" Mt. Gilead-Mt. Vernon Rd., Morrow Co., rein.-con. $122,570; to Republic Asphalt Paving Co., 801 Schwind St., Dayton, resurfacing 1.536 mi. Sect. "M" Shelby-Mansfield Rd., Richland Co., bituminous concrete, $34,612; to A. B. Shaw, Delaware, grading and structures on 9.731 mi. Sects. "N," "O" and "P" Pomeroy-Marietta Rd., Meigs Co., $124.594; to G. Keener, Madison, bridge approaches on 0.121 mi. Sects. "A" and "C" Painesville-Warren Rd., Lake Co., $19,856; to I. J. Kuhner, Jackson, Bridge "FJ," on Jackson-Pomeroy Rd., Jackson Co., $8,080. Noted May 15.

O., Cincinnati—Hamilton Co., constructing 14,690 ft. Eight Mile Rd., 16 ft., 25,000 cu.yd. grading, 70,000 gal. Grade 1 tar, etc., to J. S. Sloan, Cincinnati, $60,524. Engrs. est. $68,640. Noted June 12.

O., Cleveland—Improving Iroquois Ave., 1,670 sq.yd. brick surface, 1,400 cu.yd. excav., 1,100 lin.ft. stone curb and 4 in. drain tile gutter, to Gould & Maybach, 16311 Saranec Rd., $12,571; East 149th St., 7,090 sq.yd. brick surface, 3,000 cu.yd. excav., 4,970 lin.ft. stone curb and 4 in. drain tile gutter, to Freshwater Constr. Co., Natl. Bldg., $42,539. Noted May 29 and June 12.

O., Cleveland — Grading, curbing and paving Treadway Ave., concrete, to W. E. McHugh, West 73rd St., $22,873; East 106th and East 120th Sts., concrete, to H. G. Herring, Pavers Exchange, $26,698 and $23,116 respectively; Hope Court and Train Ave., to Roehl Bros., 7002 Denison Ave., $14,194; Gordon Court, brick, to Freshwater Constr. Co., Natl. Bldg., $,3302; Proctor Court, concrete, to Enterprise Paving & Constr. Co., 8436 Bway., $3,927; East 151st St., vitr. brick, to Bentley Bros., 3030 Euclid Ave., $80,602; Saranec Rd., asphalt, to Gould & Maybach, 16311 Saranec Rd., $52,796. Noted July 12.

O., Cleveland Heights (Warrensville P. O.)—Asphalt paving Mayfield Rd., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $58,364 Oak Ridge Rd., to Reiley Bros., The Arcade, Cleveland, $51,876. Noted June 12.

O., Columbus — W. H. Duffy, dir. Pub. Serv., to Federal Paving Co., 996 McAllister Ave., grading, laying necessary water services and sewer connections and concrete paving 296 ft. alley west Michigan Ave., 20 ft., $1,773, 227 ft. alley west 4th St., 16 ft., $1,138, 143 ft. alley north 9th Ave., 15 ft., $720, 544 ft. alley west Hamlet St., 16 ft., $2,887, 816 ft. alley north Thurman Ave., 17.8 ft., $4,230, 358 ft. alley north Reinhard Ave., 15 ft., $1,817, alley west Hamlet St., $1,868; to R. J. Dienst, 480 South 5th St., 621 ft. alley west of Harrison St., 20 ft., $3,867, 719 ft. alley north Reinhard Ave., 20 ft., $5,428; to H. A. Miller, Columbus, 3,435 ft. 8- to 24-in. combined sewer in alley north of 7th Ave., $11,170, to L. B. Wilkinson, Columbus, 1,900 ft. 6 and 8 in. sanitary sewer in Iswald Rd., $4,005. Noted May 29.

O., Steubenville—R. F. Price, dir. Pub. Serv., asphalt resurfacing High St. from Washington to Slack Sts., to Federal Asphalt Co., Main and D Sts., Hamilton, $65,446.

Ind., Anderson — Laying sidewalks on Ohio and Arrow Aves., concrete, to Strout & Lyst, Anderson, $2,799 and $2,986 respectively; paving 6th St., sheet asphalt, to Andrews Asphalt Co., Anderson, $15,324, 5th St., concrete, to Daniels & Lyst, 253 Union Bldg., $9,398.

Ind., Crown Point—Lake Co., grading and graveling 5.5 mi. Nelson Rd., 24 ft., to Calumet Constr. Co., Hammond, $62,974. Engrs. est. $63,173. Noted May 22.

Ind., Madison—Jefferson Co., grading and graveling Oliver Thornton Rd., to D. H. Fatout, 4330 Bway., Indianapolis, $26,775. Engrs. est. $30,160. Noted June 12.

Ind., Noblesville—Hamilton Co., concrete paving 24,288 sq.yd. Crum Rd., to Standard Paving Co., Anderson, $49,474. Engrs. est. $58,414. Noted June 12.

Ind., Warsaw—Kosciusko Co., concrete paving 5.66 mi. Swartz Rd., 18 ft., to C. T. Cain, Bluffton, $83,900. Engrs. est. $100,958. Noted June 12.

Michigan — State Hy. Dept., Lansing, grading and surfacing 1.1 mi. State Trunk Line Rd. 10-28, and 1.893 mi. State Trunk Line Rd. 24-27, Saginaw Co., concrete base, to T. McNally, Saginaw, $23,230 and $37,982 respectively; sheet asphalt top to Midland Contg. Co., Saginaw, $13,936 and $23,942 respectively. Noted May 15.

Michigan—State Hy. Dept. at office Pentwater Twp. Clerk, Pentwater, shaping and surfacing 3.37 mi. State Trunk Line Rd. 11-25, B, 36,969 sq.yd. concrete, and 2.62 mi. State Trunk Line Rd. 11-25, A, 15,279 cu.yd. excav., 28,923 sq.yd. concrete, both Oceana Co. (Hart) to Charlevoix Abstract & Eng. Co., Charlevoix, $39,311, and $51,378 respectively. Noted June 12.

DAM—PHILADELPHIA, PA.

Following are lowest three bids opened by Bureau of Water, Dept. Pub. Wks., for reconstruction of Fairmount Dam, Contr. No. 644, (A) Seeds & Durham, 6230 Wissahickon Ave., (awarded contract); (B) Frederick Snare Corp., 1524 Chestnut St.; (C) The Arundel Corp., Pier 2, Pratt St., Baltimore. The unit bids were as follows:

	A	B	C
12,000 cu.yd. more or less, earth excavation	$2.30	$1.50	$3.42
8,000 cu.yd. more or less, rock excavation	8.00	3.00	6.19
10,000 cu.yd. more or less, removal of timber cribbing and rock fill	4.00	5.00	4.32
200 lin.ft. more or less, gore borings	5.00	10.00	6.02
1,000 lin.ft. more or less, drilling grout holes	2.00	1.00	3.61
26,000 cu.yd. more or less, cyclopean masonry and concrete	8.00	4.70	11.10
35,000 bbl. more or less, portland cement	2.75	2.65	3.50
20,000 lb. more or less, reinforcing metal	.07	.06	.072
1,000 cu.ft. more or less grout	.25	1.00	2.23
10,000 sq.ft. more or less, gunite	.60	.50	.60
2,500 cu.yd. more or less, riprap	3.00	4.00	2.77
15,000 ft.B.M. more or less, timber	160.00	150.00	152.00
350,000 lb. more or less, sheet piling	.06	.04	.059
75,000 lbs. more or less, wrought iron and steel fixtures	.07	.08	.096
Stream control (lump sum)	115,000.00	263,000.00	48,100.00
Engineer's office, boats, etc. (lump sum)	7,000.00	10,000.00	4,810.00
Extended totals	**$604,650**	**$622,400**	**$649,307**

Michigan — State Hy. Dept. at office Comrs. Otsego Co., Gaylord, improving 4.276 mi. State Trunk Line Rd. 32-7, Sect. B, 24,794 cu.yd. excav., 40,572 sq.yd. gravel, to Yuill & Stevenson, Vanderbilt, $48,329. Noted May 15.

Michigan — State Hy. Dept. at office Comrs. Hillsdale Co., Hillsdale, grading, etc., 3.174 mi. State Trunk Line Rd. 34-2, B, C, D and E, 17,243 cu.yd. excav., 34,746 sq.yd. 7 in. concrete paving to W. H. Ryan, Jackson, $44,258.

Michigan — State Hy. Dept. at office Comrs. Schoolcraft Co., Manistique, grading and surfacing 3.488 mi. State Trunk Line Rd. 77-2, A, 17,166 cu.yd. excav., 32,698 sq.yd. gravel, to Peterson Constr. Co., 520 Globe St., Minneapolis, Minn., $32,962. Noted June 5.

Michigan — State Hy. Dept. at office Comrs. Muskegon Co., Muskegon, grading and surfacing 1.045 mi. State Trunk Line Rd. 11-19, 3,442 cu.yd. excav., 12,204 sq.yd. concrete, to J. R. Edelman, Muskegon, $27,219 (incl. cement). Noted June 5.

Michigan — State Hy. Dept. at office Comrs. Van Buren Co., Paw Paw, grading and surfacing 3.19 mi. State Trunk Line Rd. 17-14, 25,374 cu.yd. excav., 37,400 sq. yd. concrete and shaping and surfacing 2.63 mi. Federal Aid Project 101, Sect. C, 31,410 sq.yd. concrete, to Wells Constr. Co., Bluffton, Ind., $74,438 and $47,806 respectively.

Michigan — State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, grading 4.836 mi. State Trunk Line Rd. 13-50 C, 56,579 cu.yd. excav., etc., to W. Maxwell, Midland, $28,664. Noted June 5.

Mich., Detroit—To Wolverine Constr. Co., 400 Penobscot Bldg., grading and paving with one course concrete Alley 1961 $10,540, Alley 1962 $5,920, Alley 1963 $5,600, Alley 1966 $4,015, Alley 1970 $8,264, Alley 1971 $4,312, Alley 1972 $3,392, Alley 1974 $2,989; to C. L. Lincoln, 8074 East Canfield St., Alley 1964 $4,319; to T. E. Currie, 909 Free Press Bldg., Alley 1965 $4,205; to Otis Cement Constr. Co., 806 Hammond Bldg., $2,268, Alley 1968 $1,555; to Building Maintenance Corp., 1620 West Lafayette Ave., Alley 1969 $681; to R. J. Powelson, 6530 Epworth Ave., Alley 1973 $2,876.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, grading, concrete paving, etc. Sect. 55, Route 2, Dewitt and McLean Counties, to McMahon Constr. Co., Rochester, Ind., $188,688; Sect. 13, Route 37. Williamson Co., to Montague Constr. Co., Carbondale, $29,399. Noted Mar. 27.

Ill., Vandalia—City Council, improving 5th St., 11,432 sq.yd. concrete, 6,870 lin.ft. concrete curb and gutter, etc., to C. J. Moritz, Inc., Effingham, $38,164. Engrs. est. $44,169. Noted June 5.

Wis., Fond du Lac—Fond du Lac Co. Hy. Com., grading Mt. Calvary Dotyville Rd., Sec. A, to Muth-Knechtel Constr. Co., Manitowoc, $23,545, Sec. B, to C. F. Wussow, Milwaukee, $28,434, Fond du Lac-Oakfield-Waupun Rd. Sect. A and B, to C. H. Graham, Ripon, $11,672 and $19,318 respectively; grading and graveling Campbellsport-Kewaskum Rd., to F. J. Robus, Burlington, $9,605 and Campbellsport Bridge, to Whitewater Bridge Co., Whitewater, $7,065.

Ia., Algona—Kossuth Co. improving Primary Rd. Projects 13 and 14, hauling 18,375 cu.yd. gravel, to J. Schumacher, Bancroft, $16,133; 22,125 cu.yd. gravel, to Phillips Constr. Co., Watertown, S. D., $15,661; 4,800 cu.yd. gravel, to Sampson Bros., Algona, $5,152.

Ia., Davenport — Scott Co., grading Primary Road Project No. 124, Scott Co., 106,445 cu.yd. earth excav., to Shirley Constr. Co., Omaha, Neb., $32,998.

Ia., Des Moines—To Des Moines Asphalt Paving Co., 2nd and New York Sts., paving Euclid Ave., 29,000 sq.yd. "Class D" brick, $3.34 per sq.yd. Engrs. est. $100,000.

Ia., Keosauqua—Van Buren Co. improving Primary Rd. Project 382, involving 20,540 cu.yd. gravel, hauling and distributing gravel, to H. N. McCory, Waterloo, $20,469 and to H. B. Patterson, Ottumwa, $2,169; furnishing 4,717 cu.yd. gravel to Wapello Sand & Building Material Co., Ottumwa, $7,736.

Ia., Garner—Hancock Co. gravel surfacing 17,271 cu.yd. Primary Rd. Project 380, to Phillips Constr. Co., Watertown, S. D., $22,566; and Belmont Constr. Co., Belmond, $10,351.

Minn., Detroit—Paving about 7,500 sq. yd. streets, asphaltic concrete, to Welsh Paving Corp., 703 1st Natl.-Soo Line Bldg., Minneapolis, about $34,000. Noted May 29.

Minn., Duluth—Improving 60th Ave. W., 7,300 sq.yd. concrete, 4,950 lin.ft. 6 in. integral concrete curbing, 18,200 lin.ft. concrete sidewalk, etc., to Sali & Walnowki, 1018 North 13th Ave. E., $36,744; Central Ave., 9,740 sq.yd. concrete, 3,600 lin.ft. 6 in. integral concrete curbing, 1,240 lin.ft. concrete header, 37,323 cu.yd. earth excav., to Nelson & Shipman, 211 South 16th Ave. E., $30,443.

Kan., Iola—Grading, curbing, guttering and concrete paving Spruce, South Oak and North Elm Sts., to Fry Bros., Iola, $32,156.

Nebraska—State Highway Dept., Lincoln, paving 26,500 sq.yd. North Platte-Maywood Rd., Federal Aid Project 221-A, Lincoln Co., to Abel Constr. Co., 318 Terminal Bldg., Lincoln, $73,000. Engrs. est. $75,000. Noted May 22.

N. D., Grand Forks—Grand Forks Co. **(a)** grading **(b)** concrete work **(1)** Federal Aid Project 217 Sect. A **(2)** Federal Aid Project 217, Sect. B **(3)** 9 mi. Federal Aid Project 230B, to Steig & Olson, Esmond, **(a1)** $18,102 **(a3)** $28,417; to J. A. Jardine Co. Fargo **(b1)** $2,296, **(b3)** $5,994; to W. Schulze, Fergus Falls, Minn. **(a2)** $17,346; to F. W. Rasmussen, La Moure **(b2)** $1,059. Noted May 29.

South Dakota—State Hy. Comn., Pierre. **(F. A. P. means Federal Aid Project)** grading 13.65 mi. F. A. P. 175, Hand Co., 99,109 cu.yd. common excav., to Dowd Bros., & Schreiber, Watertown, $32,536; 10.12 mi. F. A. P. 170A, Brookings and Kingsbury Counties, 120,480 cu.yd. common excav., etc., and 13.02 mi. F. A. P. 170B, Lake Co., 80,105 yd. common excav., to W. R. Larson, 519 Secy. Natl. Bank Bldg., Sioux Falls, $36,898 and $34,070 respectively; 3.77 mi. F. A. P. 146B and 180B, Corson Co., 81,378 yd. common excav., to H. J. Hawley, Trail City, $23,804; 11.21 mi. F. A. P. 162A Haakon Co., 110,889 yd. common excav., to Olson & Davis, Sturgis, $44,716; 21.69 mi. F. A. P. 185A, Jones Co., 93,651 yd. common excav., to Hackett & Bladholm, Marshall, Minn., $58,746. Noted June 5.

Mo., Independence — Jackson Co., brick paving 2 mi. Independence Rd., 9 ft. rein.-con. on each side and bituminous macadam paving 2½ mi. road, to Halpin Boyle Constr. Co., 709 Ry. Exch. Bldg., Kansas City, $48,066 and $45,182 respectively; bituminous macadam paving 5½ mi. road, to W. A. Ross Constr. Co., 1921 South Bway., Kansas City, $97,417.

Ark., Atkins — F. A. Williams, Dist. Atty., Bank of Atkins Bldg., improving Road Dist. No. 4, Pope Co., 55,000 sq.yd. 7 in. compact gravel, 72,300 cu.yd. grading, 1,395 lin.ft. 12- to 24-in. concrete sewers, to W. P. McGeorge, Pine Bluff, $72,346. Noted May 22.

Ark., Hot Springs — Comrs., c/o C. J. Horner, grading and concrete surfacing 22,400 sq.yd. Street Impvt. Dist. 70, to P. Connelly Constr. Co., South Trust Bldg., Little Rock. Noted May 8.

Ark., North Little Rock (branch of Little Rock)—Improving Baring Cross Subdivision Paving Dist., 28, Curb 27, 26,000 sq.yd.

Streets and Roads (Continued)

concrete paving, curbing and guttering, to J. H. Brown, 419 West 4th St., $78,372. Noted May 22.

Tex., Abilene—To West Texas Constr. Co., Cotton Exch. Bldg., Ft. Worth, grading, curbing, guttering and paving with 2 in. warrenite bitulithic on 5 in. concrete, Oak St. $107,794, Chestnut St. $28,661, Sealey St. $12,574, Sales St. $11,797, South 9th St. $3,129. Noted May 22.

Tex., Alpine—Brewster Co., caliche surfacing 13.88 mi. State Highway 3, 18 ft., to Baudy-Crowder-Williams Co., El Paso, $59,540. Noted June 12.

Tex., Austin—Travis Co. grading Sect. A, and grading and bridging Sect. C Austin-Webberville Rd. to H. J. Evans 500 West 15th St., $13,887 and $24,422 respectively; rein.-con. drainage structures Sect. A, to Evans & Greathouse, 1706 West 6th St., $16,237; grading and bridging Sect. B, to W. E. Dozier, Austin Natl. Bank Bldg., $18,074. Noted June 5.

Tex., Cameron—Milam Co. grading and bridging, 4.09 mi. State Highway 43, Federal Aid Project 394-B, 18 ft., to H. Popejoy, Rosebud, $25,545. Noted May 8.

Tex., Georgetown—Williamson Co., grading, etc., 8.48 mi. State Highway 29, Liberty Hill-Leander Rd., 24 ft., to J. R. Hawkins & Sons, Granger, $39,042. Engrs. est. $40,750. Noted June 12.

Tex., Lynchburg—State, c/o San Jacinto Battle Grounds, W. C. Day, supt. Lynchburg, 3,700 ft. concrete paving, 18 ft. wide, to F. L. Scott, West Bldg., Houston, $29,206.

Okla., Oklahoma City — Approaches to East Reno Bridge, etc., on Sect. 9 of State Road, to Green-Beckman Constr. Co., Oklahoma City, $43,764.

Wash., Chehalis—Concrete paving 23,000 sq.yd. Alfred St. et al., to Philbrick & Nicholson, Tacoma, $81,753. Engrs. est. $87,000. Noted May 15.

Wash., Colfax—Whitman Co., surfacing 13.5 mi. Permanent Highway 20, from Palouse to Pullman, 30,000 cu.yd. crushed rock, to Campbell & Deer, Deer Park, $59,957; grading and surfacing Permanent Highway 21 from Oakesdale to Inland Empire Highway, 27,000 cu.yd. crushed rock, 55,000 cu.yd. excav., to W. A. Byers & Co., Spokane, $71,197.

Wash., Everett—Snohomish Co., constructing 6.5 mi. Woodinville Cutoff Rd., 52,262 cu.yd. earth excav., 8,072 cu.yd. gravel, 125 sq.yd. 6 in. concrete, to Wangsmo Bros. & Co., Arlington, $64,946. Engrs. est. $65,000. Noted June 5.

Wash., Seattle—Paving 22nd Ave. N. E., to J. L. Smith, Pioneer Bldg., $165,025. Engrs. est. $200,000.

Wash., Tacoma—Concrete paving South 66th St. from Adams to Taylor Sts., to Albertson, Cornell Bros. & Walsh, 1113½ A St., Tacoma, $31,369. Engrs. est. $32,042.

Calif., Inglewood—Improving Hawthorne St., etc., to W. D. McCray, Amer. Bank Bldg., Los Angeles, 240,739 sq.ft. grading $0.325, curb $0.60, walks $0.20, 12,870 sq.ft. 5 in. macadam paving $0.15, 99,550 sq.ft. 6 in. concrete paving $0.218, 18,810 sq.ft. Class A oiling $0.045, etc. Total about $36,650.

Calif., San Jose—Santa Clara Co., paving Santa Clara-Los Gatos Rd., Sect. 1, 381,956 sq.ft. asphaltic concrete, to Raisch Impvt. Co., 46 Kearny St., San Francisco, $59,890.

Calif., Sunnyvale—Improving Washington, Taafe, Sunnyvale Ave., etc., 137,879 sq.ft. 1½ in. warrenite-bitulithic on 2½ in. asphaltic concrete, 10,710 ft. concrete curb and gutter, to San Jose Paving Co., San Carlos and Dupont Sts., San Jose, approximately $55,030. Noted June 5.

Que., St. Jerome—City will repair 52,000 sq.yd. various streets, tar or asphalt, by day labor, $70,000. A. Latour, St. Jerome, engr.

Ontario — Dept. Provincial Highways, Toronto, 2½ mi. road between Perth and Carleton Pl., to D. A. Beus and J. D. Wilkinson, Port Hope, $30,000.

Ont., Cornwall—Constructing roads in Dundas and Glengarry Counties, 6 mi. to F. Milligan, Iroquois, 4½ mi. to F. M. Eagleson, Winchester, 4½ mi. to J. B. Wilkenson, Port Hope, 9½ mi. to McLean & Stidwell, Cornwall, 3 mi. to E. Irvine, Alexander, 4 mi. to O. Major, Williamson, 3½ mi. to N. A. MacDonald & Co., Dalhousie, Sta., Que.

Ont., Toronto—To Kilmer & Barber, 10 Adelaide St. E., brick block paving Hillside Ave. $3,631, asphalt paving Bowmore Rd. $4,078, Robins Ave. $9,049; to Dufferin Constr. Co., 210 Victoria St., asphalt and brick block paving, $29,815.

Ont., Toronto — Toronto & York Rd. Comn., 57 Adelaide St. E., paving with bituminous macadam on Scarlett Rd., to Constr. & Paving Co., Confederation Life Bldg.; macadam on Kennedy Rd. and Browns Lane to A. E. Jupp Constr. Co., 170 Berkeley St.; macadam on York Rd., to Law Constr. Co., 107 Hillsdale Ave.; bitulithic on Sutton Rd. to Warren Bituminous Paving Co., 54 University Ave.; macadam on Weston Rd., to E. S. Dagg, Nashville.

Ont., Toronto—To Kilmer & Barber, 10 Adelaide St. E., concrete curbs on Bowmore Rd. and 8th Ave., $0.71 per lin.ft., Hemlock Ave. and Maughan Crescent $0.70, to Godson Contg. Co., Manning Chambers, Cairns Ave. $0.70, to Warren Bituminous Paving Co., 54 University Ave., Hingham and Robina Aves. $0.70, to City Works Dept., by day labor, Clifton Rd. $0.70, 3rd and Cummings Sts., Cannon, Pullen, 8th, and Norwood Aves., $0.71, to Constr. & Paving Co., Confederation Life Bldg., Chandos Ave. $0.70; to Natl. Contg. Co., 9 Garnock Ave., concrete sidewalks on Imperial St. $1.10, Duplex Ave. $2.21, to Murphy Constr. Co., Wychwood Ave., Beresford Ave. $1.05, to Grant Contg. Co., 50 Front St. E., 8th Ave. $0.95, Sears Ave. $1.60, 7th Ave. $1.65, to F. Angotti, 819 St. Clarens Ave., Geary Ave. and Shaw St. $1.93; to P. Licastro, 1423 Dufferin St., Regal Rd. $1.30, to A. E. Jupp Constr. Co., 70 Berkeley St., Riverdale Ave. $1.90, Simpson Ave. $1.85, to L. P. Acri, 102 Markham St., Spadina Rd. $1.90, to Dept. Pub. Wks., by day labor Adelaide St. W., $4.1075, Kendal Ave. $2.05, Marlborough Pl. $1.905.

Ont., Toronto — To Warren Bituminous Paving Co., 54 University Ave., paving with bitulithic on concrete Conrad Ave. $5,479, Algergrove Ave. $5,011, Bingham Ave. $6,078, Beresford Ave. $1,730, Durie St. $1,520, Nelles Ave. $4,972, Robina Ave. $2,654, St. Johns Rd. $2,068, Weatherell Ave. $6,973; to Asphaltic Concrete Co., Excelsior Life Bldg., bitulithic on concrete Nasmith Ave. $6,201, concrete on Hillsdale Ave. $17,145, brick block on 8th Ave. $7,492; to Dept. Pub. Wks., by day labor, bitulithic on concrete Gifford Ave. $6,112, Hastings Ave. $7,781, Riverdale Ave. $9,185, concrete on lane west of Markham St. $3,442, brick block on Woodbine Ave. Contr. B, $28,712, asphalt on Dean St. $2,191, Front St. $8,684, Cummings St. $4,117, Lexie St. $5,109, Montcrest Blvd. $3,812, Sellers Ave. $946, asphaltic concrete on Harriett St. $1,488; to Ramsay Contg. Co., 39 Indian Crescent, concrete on Ranleigh Ave. $11,696; to Grant Contg. Co., 50 Front St. E., concrete on Millwood Rd. $10,036, brick block on Belhaven Rd. $12,868; to Dufferin Constr. Co., 210 Victoria St., brick block on Woodbine Ave. Contr. A, $29,815, asphalt on Blackburn Ave. $5,890, Hugo St. $2,052, Munro St. $8,624, Cannon Ave. $2,415, Clifton Rd. $2,864, Heath St. $4,013, Norwood Rd. $6,932, Sawden Rd. $3,601, 3rd St. $1,864, asphalt surfacing Front St. $7,449, Elm and Hawthorne Aves., Castle Frank and Glen Rds., $6,171; to Kilmer & Barber, 10 Adelaide St. E., asphalt on Maughan Crescent $10,504, 2nd St. $4,094, and 8th Ave. $16,004; to Constr. & Paving Co., Federation Life Bldg., asphalt on Eden Pl. $2,630, Mulock Ave. $19,262, Nanton Ave. $7,861, Bodwin Ave. $1,953; to Godson Contg. Co., Manning Chambers, asphalt on Cairns Ave. $5,504, Cannon Ave. $13,393, Pullen Ave. $6,873, asphalt surfacing Front St. $12,945; to Shenton & Cronin, 29 Annette St., grading Cavendish St. $2,361, Winthorpe Rd. $4,832; to Britnell Contg. Co., 903 Yonge St., grading Nelels Ave. $223, Weatherell Ave. $279, Harriett St. $322; to Bounivere & Co., 697 Lansdowne Ave., grading Banfield Crescent $594, lane north of Danforth Ave. $185.

Ont., Welland—Welland Co. voted $160,000 for roads, $110,000 for maintenance and $50,000 new concrete and macadam roads. Maintenance of gravel, clay and macadam roads will be done by day labor. W. W. Brookfield, Box 1334, supt.

B. C., Vancouver—About 9,300 sq.yd. 1 course concrete pavement, 7 in. centre to 9 in. edge, on parts of Prior and Station Sts., Northern and Terminal Aves., to C. D. Collard, 103 London Bldg. $28,000.

B. C., Vancouver—To Columbia Bitulithic Co., 402 Pender St. W., 10,000 yd. 2 in. Warrenite bitulithic on 6 in. block, approaches to Union and Canadian Natl. Ry. depots, $30,900. Noted Apr. 17.

Industrial Works

PROPOSED WORK

R. I., Providence—Plant and Wharf—Atlantic Refining Co., 430 Hospital Trust Bldg., plans refining plant and wharf. $150,000-$300,000.

Conn., New Britain—Boiler House and Coal Pocket—State Bd. Educ. Hartford, having plans prepared by W. F. Brooks, Gold and Lewis Sts., Hartford, 1 story, 15 x 40 x 40 ft., rein.-con. and brick for State Normal School, here. $40,000. A. Kellogg, 89 Franklin St., Boston, engr.

Conn., Westport—Heating Plant—Westport Sanitarium, having preliminary plans prepared by A. Kellogg, engr. and archt., 89 Franklin St., Boston, constructing central heating plant. $40,000.

N. Y., Altmar—Transformer Station—Niagara, Lockport & Ontario Power Co., Lafayette Bldg., plans transformer station, here. $600,000.

N. Y., Green Island (Troy P. O.)—Factory—Ford Motor Co., Highland Park, (Detroit P. O.) Mich., having prepared 1 or 2 story, 200 x 1,300 ft. rein.-con., brick and steel, here. $1,800,000. Private plans.

Pa., Berwick—Mill—Berwick Lumber & Supply Co. plans rebuilding mill recently destroyed by fire. $160,000-$175,000.

Pa., Hawley — Hydro-Electric Plant — Pennsylvania Power & Light Co., 25-31 East Boardman St., Youngstown, O., plans hydro-electric plant on Wallinpaupack Creek, near here. Work includes 1,150 ft. concrete dam, 50 ft. high, approximately 3 mi. 14 ft. pipe line, power house on Lackawaxen River, about 50,000 hp. capacity, and reservoir, 9,000,000,000 cu.ft. capacity.

La., Lafayette—Heating Plant, Laundry, etc.—See "Buildings."

Ind., Alexandria—Factory—Alexandria Canning Co., plans rebuilding 3 story, brick, West Washington St., wrecked by windstorm. $50,000.

Mich., Detroit—Foundry—Detroit Gray Iron Fdry. Co., 6403 Wight St., having plans prepared by Mildner & Eisen, 924 Hammond Bldg., 2 story, 50 x 80 ft., brick and steel addition, plain foundation, Iron St. $40,000.

Ill., Springfield — Plant — Illinois State Journal, 313 South 6th St., having preliminary plans prepared newspaper plant. $200,000. Private plans.

Wis., Friendship—Power Plant—Friendship Electric Light & Power Co., G. Polvicka, mgr., having plans prepared by L. A. De Guere, Wisconsin Rapids, 50 x 95 ft., rein.-con., brick and steel, plain foundation. $50,000.

Wis., Shorewood (Milwaukee P. O.)—Shop—School Dist. No. 4, H. Kuechenmeister, clk., having preliminary plans prepared by Herbst & Kuenzli, 130 Grand Ave., Milwaukee, 1 or 2 story, brick and concrete manual training shop, Atwater St., plain foundation. $45,000.

Kan., Abilene—Power Plants—See Unclassified under Kansas.

Mo., Poplar Bluff—Mill, etc.—Bimel Ashcraft Mfg. Co., J. Ashcroft, pres. plans rebuilding 1 and 2 story, brick and concrete recently destroyed by fire. $65,000. Private plans.

Calif., Beverly Hills—Laundry—Beverly Hills Laundry Co., K. F. Lee, 341 South Harvard St., Los Angeles, interested, plans laundry, here. $100,000 or more.

Ark., Fayetteville—Factory—J. F. Moore, secy. Chamber of Commerce, soon takes bids 2 and 3 story, 60 x 140 ft., concrete and brick, $40,000. Ely-Walker Co., 1520 Washington St., St. Louis, Mo., lessee.

Calif., Eureka—Sawmill, etc.—Humboldt Lumber & Building Co., 233 G St., making plans, saw and planing mill, dry kilns, etc., capacity 50,000 ft. per day, Lawrence Creek. D. H. McFarlan, mgr. Private plans.

Calif., Fresno—Plant—Garcia & Maggini, 246 Drumm St., San Francisco, plans rebuilding packing plant recently destroyed by fire, here. $75,000.

Calif., Huntington Park (Branch of Los Angeles)—Factory, etc.—U. S. Steel Products Co., 156 North Central Ave., Los Angeles, plans factory and warehouse on 7 acre site, here. To exceed $40,000.

Calif., Merced — Power House — See "Dams."

Calif., San Francisco—Factory—Riesener Chocolate Co., 415 8th St., had plans prepared by T. H. Keil, Call Bldg., 4 story, brick and steel, Hayward St. To exceed $40,000.

BIDS DESIRED

Conn., Waterbury—Factory—Plume & Atwood Mfg. Co., 470 Bank St., taking bids, 4 story, 25,400 sq.ft. floor space, also 5 story, brick and concrete stair and elevator tower. Westcott & Mapes, Inc., 139 Orange St., New Haven, designing engrs. Noted May 22.

Ind., Batesville—Factory—Union Furniture Co., taking bids 4 story and basement, 18 x 72 ft., brick and steel. $50,000. M. Fisher, Brighton Bank Bldg., Cincinnati, O., engr. Noted June 12.

Mich., Detroit — Printing — June 22, by A. K. Kahn, archt., 1000 Marquette Bldg., 14 story an basement, 130 x 212 ft., with 7 story, 54 x 130 ft. tower, rein.-con., brick and steel, plain foundation, Lafayette Blvd., for Detroit Free Press, Free Press Bldg.

Mich., Detroit—Power Station—June 26, by J. S. Foley, secy. Pub. Lighting Comn., rein.-con. and concrete substructure for power station to contain 3 turbo genera-

Industrial Works (Continued)

tor units. Smith, Hinchman & Grylls, 800 Marquette Bldg., engrs.

BIDS RECEIVED

Wash., Tacoma—Power House—City, power house for Lake Cushman project, from J. B. Murphy, Arcade Bldg., $199,212, Engrs. est., $250,000. Noted June 12.

CONTRACTS AWARDED

Vt., Graniteville—Machine Shop—Boutwell, Milne & Varnum Co., Barre, 2 story, 50x160 ft., brick and stone plain foundation, to Roy Constr. Co., Woodville, N. H. Archts. est. $70,000.

Mass., Dorchester (Boston, P. O.)—Plant—Nat'l. Can. Co., 36 Washington St. N., 1 story, 120 x 160 ft., Locust St., to B. Steinberg, 200 Columbia St., Cambridge. Archts. est. $90,000.

Mass., Norton—Power House—Wheaton College, 2 story power house, to E. F. Miner Building Co., 25 Foster St., Worcester. Archts. est. $80,000.

Conn., Stratford (Bridgeport P. O.)—Factory—Bridgeport Safety Emery Wheel Co., 82 Knowlton St., Bridgeport, 1 story, 90 x 240 ft., brick and steel, plain foundation Stratford Ave., here, to W. R. Muirhead, 648 main St., Bridgeport. Noted Apr. 3.

Pa., Williamsport—Printing—Ballinger Co., archts. and engrs., 12th and Chestnut St., Phila., 1 story, 168 x 208 ft., brick and steel, plain foundation, to Central Constr. Co., 17th and Chestnut St., Harrisburg, for Smith Printing Co. Inc., 3rd and Basin Sts. Archts. est. $200,000.

Fla., Clearwater—Gas Plant—City, water gas plant, 175,000 cu.ft. per 24 hr., complete with gas lines, to Amer. Gas Constr. Co., Newton, Ia., $79,915. Noted Mar. 27.

Tenn., Nashville—Plant—Swift & Co., 76 West Monroe St., Chicago, Ill., 4 story, rein.-con. and brick, 800 4th Ave. N., general contract to Foster-Creighton & Co., 4th and 1st Natl. Bank Bldg., $100,000. Noted June 12.

O., Cleveland—Boiler House and Laundry—See "Buildings."

O., Cleveland—Factory—Grennan Cake Corp., 1941 East 66th St., 1 story, 59 x 106 ft., brick and steel addition, to Paul Bros., Fidelity Mortgage Bldg. Archts. est. $40,000.

O., Cleveland—Substation—Cleveland Electric Illuminating Co., c/o E. J. Cook, Illuminating Bldg., 2 story, 56 x 62 ft., brick, steel and concrete, Oak Bd., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $60,000.

Ill., Urbana—Dairy—University of Illinois, general contract 3 story and basement, 31 x 50 ft. with two 32 x 118 ft. wings, rein.-con., brick and stone, on campus, to A. W. Stollman, 1001 South 3rd St., Champaign. Noted Apr. 24.

Wis., Milwaukee—Factory—Display Fixture Mfg. Co., 1627 St. Paul Ave., 1 story, 52 x 120 ft., brick and timber, plain foundation, to L. V. Constr. Co., 1120 6th St. Archts. est. $40,000.

Wis., New Richmond—Mill—New Richmond Roller Mills, W. Grover, mgr., will build 1 and 2 story, 35 x 40 ft., feed mill, rein.-con. and brick, plain foundation, by day labor. $40,000. Private plans. Noted May 15.

Ia., Marshalltown—Factory—Fisher Supply Co., general contract 2 story and part basement, 60 x 125 ft., rein.-con. and brick, to Tapager Constr. Co., Albert Lea, Minn., $40.352. Noted Mar. 27.

Minn., Minneapolis—Factory—Electric Mchy. Mfg. Co., 1331 Tyler St. N. E., will build 2 story and basement, 134 x 182 ft., brick addition, by day labor. $72,000. R. J. Kvalheim, 2631 Central Ave., archt.

Minn., Willmar—Power House, etc.—City, general contract for power house, to Standard Constr. Co., 1111 Plymouth Bldg., Minneapolis, $67,430; plumbing, heating and machinery, to B. Benson, Willmar, $74,650. Noted Jan. 17.

Mo., St. Louis—Depot—Highland Dairy Farms Co., 4816 Delmar Blvd., general contract 2 story and basement, rein.-con., brick, stone, terra cotta and tile, etc., Chouteau Ave., to Kremer & Voirol, Century Bldg. Archts. est. $150,000.

Tex., Ft. Worth—Mill—Worth Mills Co., c/o L. H. McKee and associates, 1819 Jones St., 3 story, 145 x 220 ft., brick and steel, to T. S. Byrne, First Natl. Bank Bldg., Ft. Worth, $200,000.

Tex., Ft. Worth—Mill—Bewley Mills Co., 1101 East 9th St., concrete addition to flour mill and elevator, to C. T. Hogue, Keene Bldg. Engrs. est. $40,000.

Calif., San Bernardino—Shops—Atchison, Topeka & Santa Fe Ry. Co., Kerchkoff Bldg., Los Angeles, 100 x 193 ft. sheet metal plant, and 45 x 180 ft. flue shop, steel and corrugated iron, here, to Lynch Constr. Co., Central Bldg., Los Angeles, $60,000.

Ont., Jordan—Factory—Canadian Grape Products Ltd., factory addition to Wills & Mitchell, St. Catherines. Archts. est. $50,000.

Ont., Kitchener—Factory—J. M. Schneider Packing Co., 148 Queen St. S., 3 story and basement, 70 x 150 ft., rein.-con. and steel addition, to J. V. Gray Constr. Co., Bank of Toronto, London, $130,000. Noted May 22.

Ont., Welland—Brewery—Welland Brewing & Malting Co., 4th St., constructing brewery, to Gardner Constr. Co., Welland, $100,000.

Buildings

PROPOSED WORK

Vt., Burlington—High School—City having preliminary plans prepared by F. L. Austin, 240 College St., junior high school. $350,000. A. Kellogg, 89 Franklin St., Boston, Mass., engr.

Mass. Boston—Club—University Club, 270 Beacon St., having sketches made by Monks & Johnson, 99 Chauncey St., new club house, Trinity Pl., $600,000. Noted Feb. 21.

Mass., Cambridge—Warehouse and Office—Shepard and Sterns, 65 Franklin St., Boston, had plans prepared by Haskell-Adams Co., 5 Commercial St., Boston, 2 story and basement, 110 x 190 ft., Henry St., here. $200,000. Noted Apr. 24.

Mass., Dorchester (Boston P. O.)—Apartment—Corporation, c/o M. E. Levy, engr. and archt., 7 Water St., Boston, having plans prepared 6 story and basement, 153 x 164 ft., brick and stone, near Franklin Park, here. $800,000.

Mass., Lynn—High School—City having plans prepared by G. A. Cornet, archt., 10 Central St., rebuilding 4 and 5 story, 55 x 125 ft. and 85 x 165 ft., rein.-con., brick and stone, Essex and Liberty Sts. $600,000.

Mass., North Reading—Inn—De Pesa & Lavaggi, Wayland, having plans prepared by F. A. Norcross, 46 Cornhill St., Boston, 2 story, 85 x 200 ft., brick, known as Palais Royal Motor Inn here. $150,000.

Mass., Roxbury (Boston P. O.)—School, etc. New England School of Theology, 17 Rockville Park, having plans prepared, 3 story and basement, 50 x 60 ft. school and 30 x 40 ft., dormitory additions, rein.-con., brick and stone. $150,000. S. A. Dannah, chn. building comn. Private plans.

Mass., Springfield—Store—T. E. King, State St., is interested in syndicate which plans to construct department store to house wholesale and retail clothing business, Main and Court Sts. $500,000-$700,000.

Mass., Waltham—Church—Waltham Congregational Church Society, plans new church. $150,000. J. W. Beal & Son, 62 Summer St., Boston, archts.

Mass., Waltham—School—School Comn., plans school, Lake St. $160,000. Engineer and architect not selected. G. R. Beal, 49 School St., chn.

Mass., Westfield—High School—R. M. Sizer, archt., Bartlett Ave., made sketches for high school, brick, for School Bd. $420,000.

Mass., Westfield—Theater, Store and Office—J. S. Silverstein and M. Sheketoff, both Windsor Ave., and A. Simmons, Main St., Hartford, Conn., plan new theater, store and office building, Elm St., here. $150,000-$175,000. Engineer and architect not selected.

R. I., Pawtucket—Club—Pawtucket Elks Realty Co., 260 Central St., having plans prepared by R. C. N. Monahan, 255 Main St., 3 story, Montgomery and Exchange Sts. $185,000.

Conn., Bridgeport—Church—Building Com. United Congregational Church, having plans prepared by Allen & Collens, 75 Newbury St., Boston, Mass., 1 story and basement, brick and timber, State St. and Park Ave. $350,000.

Conn., Bridgeport—Garage and Showroom—D. W. Flint, Inc., Allens Ave., Providence, R. I., having plans prepared by Fletcher-Thompson Co., archts. and engrs., 542 Fairfield Ave., 2 story. 130 x 160 ft., rein.-con., brick and steel, plain foundation, West and State Sts., here. $150,000.

Conn., Hartford—Hotel and Store—L. Libman, Savoy Hotel, having plans prepared by F. C. Walz, Turnbull St., 5 story and basement, 65 x 65 ft., brick and stone, Chapel St. $170,000.

Conn., Hartford—Library—Hartford Theological Seminary, Broad St., having plans prepared by Allen & Collens, 75 Newbury St., Boston, Mass., brick library and recitation hall, Broad St. $250,000.

Conn., Hartford—Store—W. T. Grant, 28 West 23rd St., New York City, having plans prepared 4 story, 100 x 200 ft., brick and steel, plain foundation, 26 State St., here. $200,000. Private plans.

Conn., New Britain—School—Sacred Heart of Jesus Church, Gold St., plans 2 story and basement, 75 x 175 ft., brick addition, plain foundation, $300,000. G. P. B. Alderman, Holyoke, Mass., archt.

Conn., New Haven—Church—St. Anne's Roman Catholic Church plans 1 story and basement, 45 x 110 ft., brick and timber, plain foundation, Dixwell and Arch Sts. $150,000. F. Rubino, 593 Howard Ave., archt.

Conn., Norwalk—High School—School Bd. having revised plans prepared by J. A. Jackson, 185 Church St., New Haven, 2 story and basement, 95 x 125 ft., rein.-con. and brick, Main St. $150,000. Noted June 5.

Conn., Thompsonville—School—Enfield Twp., having plans prepared by F. I. Cooper Corp., 983 Main St., Hartford, 2 story and basement, brick, plain foundation. $250,000. A. Higgins, supt.

N. Y., New York—Art Center—City, City Hall, having plans prepared by Arnold W. Brunner, 101 Park Ave., 200 x 600 ft., 58th St. and 7th Ave. $15,000,000.

N. Y., Carthage—Club—Building Com. Rotary Club, and A. F. Mills, mgr. W. Branaugh Estate, plan memorial club building. $150,000-$160,000. Address A. F. Mills, Carthage.

N. Y., Rome—High School—Bd. Educ., having plans prepared by Tooker & Marsh, 101 Park Ave., New York City, for new high school, Turin St. $400,000. Address F. W. Marks, chn. building com.

N. J., Atlantic City—Clubhouse—Elks Lodge 276 having revised plans prepared by V. B. Smith, Guarantee Trust Bldg., 4 and 5 story, 75 x 150 ft., brick and steel, South Virginia Ave. Former bids rejected. Noted May 22.

Md., Baltimore—Bank and Office—Old Town Natl. Bank, Gay and Exeter Sts., having plans prepared by F. A. Fletcher, 407 North Charles St., 6 story, 81 x 81 ft., brick and stone, pla[illegible]ndation, Gay and Fallsway Sts. [illegible]0,000. Noted May 22.

N. C., Raleigh—Hotel—Sir Walter Hotel Co., 400 Fayetteville St., plans brick and limestone addition. $200,000.

S. C., Greenville—Office—Chamber Commerce takes bids about June 24, 10 story, brick and steel, Main St. $225,000. Beacham & Le Grand, Finley Bldg., archts.

La., Lafayette—College—House and Senate of General Assembly, Baton Rouge, recommend adoption of House Concurrent Resolution 7, making provision for following improvements to Southwestern Institute, here: dining hall $75,000, gymnasium and athletic stadium $100,000, central heating and power plant with laundry, etc., $75,000, training school for practice teaching $100,000, dormitory for men $100,000, dormitory for women $200,000, infirmary $25,000, equipment $25,000.

Ky., Lebanon—Church, etc.—Nevin, Wischmeyer & Morgan, archts., Starks Bldg., Louisville, open bids about July 7 (extended date), church and Sunday school, here, for United Presbyterian Church. $150,000. Noted Apr. 24.

Ky., Louisville—Theatre, Club and Office—J. G. Brown, of Brown Lumber Co., takes bids about June 28, 10 story, 150 x 180 ft., Bway. $1,500,000. J. P. Bradshaw, International Life Bldg., St. Louis, Mo., engr. Noted Apr. 24.

O., Canton—Lodge—Eagles Lodge, 335 Tuscarawas St., W., soon takes bids 3 story and basement, 92 x 100 ft., Market Ave. S., $250,000. Thayer & Johnson, 5716 Euclid Ave., Cleveland, archts. Noted Aug. 16.

O., Cleveland—Warehouse—Malbin Realty Co., c/o S. Malbin, 2741 East 34th St., had plans prepared by A. A. Soffen, Engineers Bldg., 6 story and basement, 80 x 100 ft., brick, Croton Ave. $200,000.

O., Columbus—Animal Husbandry—Bd. Trustees Ohio State University having plans prepared by J. N. Bradford, c/o Ohio State University, 2 and 3 story and basement, 140 x 180 ft., rein.-con., brick and steel, on campus. $200,000.

Mich., Bay City—Mercantile—Jennison Hardware Co., having plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, plans 5 story and basement, 95 x 100 ft., rein.-con., plain foundation, 5th and Water Sts. $150,000.

Mich., Detroit—Apartment—Owner, c/o A. E. Harley, archt., 316 McKerchey Bldg., having plans prepared 6 story and basement, 100 x 150 ft., rein.-con. and brick, plain foundation, North Woodward St. $300,000.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., had plans prepared by Malcolmson & Higginbotham, 1217 Griswold St., 2 story and basement, rein.-con., brick and steel, plain foundation, Cameron Ave. $300,000.

Mich., Kalamazoo—Dormitory—Kalamazoo College, having plans prepared by A.

Buildings (Continued)

Kahn, 1000 Marquette Bldg., Detroit, 3 story and basement, rein.-con., brick and steel, plain foundation, on campus. $150,000.

Mich., Marquette—Jail—F. G. Jenks, clk. Marquette Co., having plans prepared by D. Hubert, Menominee, 3 story, 40 x 82 ft., concrete and stone, plain foundation. $150,000.

Mich., Redford—School—School Dist. 1, having plans prepared by Verner, Wilhelm & Molby, 602 Book Bldg., Detroit, 1 story and part basement, 24 room, rein.-con., brick and steel, plain foundation.

Wis., Beloit—School—F. H. Kemp, archt., Beloit, soon takes bids, 2 story and basement, 84 x 144 ft., brick and tile, plain foundation, for St. Jude Congregation. J. Hanz, 747 Hackett St., pastor. $150,000. Noted May 15.

Wis., Fond du Lac—School—Bd. Educ., J. Hohensee, secy., having plans prepared by Perkins, Fellows & Hamilton, 814 Tower Court, Chicago, Ill., 2 story, concrete, brick and tile addition to Roosevelt Junior High School and Senior High School, plain foundations. $400,000.

Wis., Green Bay—Office—Wisconsin Pub. Serv. Co., 559 Marshall St., Milwaukee, having preliminary plans prepared by Oppenhamer & Obel, Bellin Bldg., 6 or 7 story, brick and concrete, plain foundation, South Washington St. Will exceed $150,000.

Wis., Milwaukee—Church—Holy Angels Congregation, G. Meyer, pastor, 1665 11th St., having plans prepared by Riesch & Hess, 302 West Water St., 2 story, brick and tile, plain foundation, 11th St. $150,000.

Kan., Winfield—Hospital—City having preliminary plans prepared by H. F. Haynes, Winfield, 3 story and basement, rein.-con., brick and stone. To exceed $150,000.

Mo., St. Louis—Garage—St. Louis Police Dept., 112 South 12th Blvd., will build 2 story, 154 x 154 ft., rein.-con. and brick, by separate contracts under supervision of H. G. Clymer, archt., Wainwright Bldg. $150,000.

Mo., St. Louis—Office—P. Brown, c/o P. Brown & Co., Pierce Bldg., purchased 8 story building from Olive & 9th Realty Co., c/o I. T. Cook & Co., Arcade Bldg., soon takes bids 6 story top addition, Olive and 9th St. To exceed $600,000. Noted Feb. 14.

Mo., St. Louis—School—Bd. Educ. soon takes bids 2 story and basement, rein.-con., brick and stone. $210,000. R. M. Milligan, 911 Locust St., engr. and archt.

Tex., Abilene — Dormitory — McMurray College had plans prepared by David Castle & Co., Abilene, 3 story, brick and concrete, on campus. $150,000.

Tex., Abilene—Schools—Voted $150,000 bonds for schools. O. K. Hobbs, city engr. Noted May 22.

Tex., Dallas—Science—Southern Methodist University plans brick and concrete science building on campus. $150,000. C. C. Selecmann, pres. Engineer and architect not selected.

Tex., Ft. Worth—Exchange—Southwestern Bell Telephone Co., 211 West 10th St., plans 5 or 6 story and basement, brick and concrete, Throckmorton and 10th Sts. $500,000. Also plans one or more smaller exchanges. $150,000 each minimum.

Tex., Houston—Rail Terminal—See "Unclassified."

Tex., Sherman—Warehouse—Everheart Wholesale Grocery Co., having plans prepared by Clyce & Rolfe, engr. and archt., Commercial Bank Bldg., 3 story and basement, 140 x 145 ft., brick and concrete, East Lamar St. $150,000.

Okla., Holdenville—Temple—H. R. Allen, secy. Masonic Building Assn., soon takes bids 5 story and basement, rein.-con., brick and stone. $150,000. Private plans.

Ariz., Phoenix—Office and Lodge—B. P. O. E., Phoenix Lodge 335, plans 5 story, fireproof, Adams St. To exceed $150,000. Engineer and architect not announced.

Wash., Bellingham—Schools—School Bd. election June 21, $425,000 bonds for converting 3 grade schools into junior high schools.

Calif., Berkeley — Exchange — Pacific Telephone & Telegraph Co., 333 Grant Ave., San Francisco, having plans prepared by E. V. Cobby, Shreve Bldg., San Francisco, 4 story and basement, Class A rein.-con., Bancroft Way, here. $300,000.

Calif., Berkeley — Hotel — Hutchison & Mills, 1214 Webster St., Oakland, having plans prepared by L. R. Wilson, 2216 Blake St., 5 story and basement, rein.-con., to contain 150 rooms, Dwight Way, here. $150,000.

Calif., Berkeley—Schools—City having preliminary plans prepared by W. H. Ratcliff, Jr., 1st Natl. Bank Bldg., and J. W. Plachek, 2014 Shattuck Ave., 2 fireproof schools. $150,000 each. Noted June 5.

Calif., Cupertino—High School—Western Union High School Dist., plans election, $250,000 bonds, group of high school buildings.

Calif., Hayward—School—Hayward High School Dist. having plans prepared by H. C. Smith, Humboldt Bank Bldg., San Francisco, 2 story and basement, to contain 24 classrooms and auditorium, concrete. $300,000.

Calif., Hollywood—Apartment and Store—F. L. Wilkie, c/o Walker & Eisen, archts., Great Republic Life Bldg., Los Angeles, having plans prepared, 6 story and basement, Class A, fireproof, North Highland Ave., here. To exceed $300,000.

Calif., Hollywood — Sanitarium — F. M. Crosby, Bell, representing owner, having plans prepared by J. T. Zeller, Currier Bldg., Los Angeles, 7 story and basement, 125 x 140 ft., brick, rein.-con. and steel, here. To exceed $400,000.

Calif., Los Angeles—Church—Wilshire Congregational Church, c/o Allison & Allison, archts., Hibernian Bldg., having plans prepared rein.-con., main auditorium to seat 1,200, Plymouth and Wilshire Blvds. $175,000.

Calif., Los Angeles — Garage — R. R. Meads, 418 East 8th St., representing owner, having plans prepared by Noerenberg & Johnson, Railway Bldg., 8 story and basement, 80 x 175 ft., rein.-con., Hope St.

Calif., Los Angeles—Memorial—Los Angeles Co. had plans prepared by Allied Architects Assn., 424 South Spring St., Class A, brick, rein.-con. and steel, Figueroa St. To exceed $350,000. Noted Dec. 27, 1923.

Calif., Los Angeles—Schools—Voted $34,640,000 bonds for new schools, additions and alterations to present schools. Noted Mar. 13.

Calif., Los Angeles—Store and Apartment—Business Dist. Development Co., Merchants Natl. Bank Bldg., plans about 10 story, fireproof, Cahuegna Ave. To exceed $350,000.

Calif., Los Angeles—Store and Loft—Klein-Norton Co., 253 South Los Angeles St., having plans prepared by J. M. Cooper, Marsh-Strong Bldg., 10 story and basement, 60 x 150 ft., rein.-con., Los Angeles St.

Calif., Oakland—Hospital—Peralta Hospital Assn., c/o C. W. Dickie, archt., Actico Bldg., having sketches made, fireproof, to accommodate from 130 to 150 patients. $300,000.

Calif., Pasadena — Dormitory — Natl. Benevolent Assn., c/o R. H. Orr, archt., Corporation Bldg., Los Angeles, having plans prepared 2 story and basement, frame and plaster, Santa Anita Ave., here. $150,000.

Calif., San Diego—Bank and Office—San Diego Savings Bank, 5th and E Sts., plans 10 story fireproof, Bway. and 6th Sts.

Calif., San Diego — Club — Minnewana Ranch Club, c/o W. L. Wollett, archt., Pacific Mutual Bldg., Los Angeles, had plans prepared frame and plaster, here. $150,000 or more.

Calif., San Francisco—Apartment—E. V. Lacey, 180 Jessie St., having plans prepared by J. C. Hladik, Monadnock Bldg., 5 story and basement, rein.-con. Eddy St. $175,000.

Calif., San Francisco — High School — City and San Francisco Co., having plans prepared by J. Reid, Jr., 1st Natl. Bank Bldg., fireproof, Junior high school, to contain approximately 40 classrooms, old Exposition grounds.

Calif., San Francisco—Schools—City and San Francisco Co., having plans prepared by J. G. Howard and associates 1st Natl. Bank Bldg., Miller & Pflueger, Lick Bldg., G. A. Lansburgh, 140 Montgomery St., and Bakewell & Brown, 251 Kearny St., 4 fireproof schools. $400,000 bonds voted for each.

Calif., Talmage — Hospital — Mendocino State Hospital rejected bids fireproof receiving building. G. B. McDougall, Forum Bldg., Sacramento, state archt. Noted Jan. 17.

California—Memorial Clubhouses—Butte Co., Oroville, plans memorial clubhouses, at Oroville, Gridley and Chico. $185,000. C. F. Belding, co. clk.

Que., Montreal—Arena—J. S. Archibald, archt., 326 Beaver Hall Hill preparing plans 2 story, 300 x 355 ft., rein.-con. and steel, St. Catherine St. Owner's name withheld.

Que., Outremont — Convent — Sisters of Holy Name of Jesus and Mary, having plans prepared by Viau & Venne, 99 St. James St., Montreal, 5 story, 200 x 440 ft., brick, Bernard St. $1.200.000.

Ont., Toronto — Church — St. Clements Angelican Church having plans prepared by Page & Warrington, Confederation Life Bldg., 1 story and basement, 60 x 120 ft., rein.-con., brick and steel, $150,000.

BIDS DESIRED

Mass., Revere — High School — School Com., taking new bids Junior High School, 2 story, 113 x 170 ft., brick and stone, Ward 2. $150,000. Former bids rejected. E. J. Wilson, 109 State St., Boston, archt.

Conn., Manchester—Theatre—S. Campner and D. Pouzzner, 129 Church St., New Haven, taking bids 2 story and basement, 75 x 110 x 195 ft., brick, plain foundation, Main and Bissell Sts., here. $200,000. J. A. Tuck, Boston, Mass., and J. Weinstein, Metropolitan Bldg., New Haven, archts. Noted May 1.

N. Y., Lowville—School—June 23, (extended date) by Bd. Educ., new school. $500,000. Address S. B. Richardson, chmn. bldg. com. Noted June 12.

N. J., Union—High School—June 23, by Bd. Educ., Union Twp., Stuyvesant Ave., 2 story and part basement, 126 x 180 ft. high school, Morris Ave. F. A. Elsasser, 85 Broad St., Newark, archt.

Pa., Pocono Manor—Inn—June 20, by W. Smedley, archt., St. Girard Bldg., Phila., addition, here, for Pocono Manor Inn.

Tenn., Knoxville—Dormitory—June 28, T. M. Morris, secy. and treas., University of Tennessee, brick and stone, known as "Sophoronia Strong" on campus. Miller, Fullenwider & Bowling, 646 North Michigan Ave., Chicago, archts.

Tenn., Nashville—Chapel and Memorial Hall—June 23, by H. C. Hibbs, archt., 4th and 1st Natl. Bank Bldg., 3 story, concrete, brick and stone chapel and memorial hall, on campus, for Vanderbilt University, $100,000 and $150,000 respectively. Noted Jan. 3.

Mich., Flint—School—June 24, by H. M. Comins, secy. Bd. Trustees Union School Dist., Roosevelt School, 2 and 3 story and basement, 110 x 240 ft., rein.-con., brick and steel, River Rd. Malcolmson & Higginbotham, 1217 Griswold St., Detroit, archts. Noted May 22.

Ill., Rogers Park (Chicago P. O.)—High School—E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., taking bids masonry and concrete work 3 story and basement, brick and concrete, Ridge Blvd., here, for St. Scholastica Academy, 7430 Ride Blvd. $400,000. Noted May 15 under "Excavation, Drainage and Irrigation."

Wis., Kenosha—Clubhouse—June 21 (extended date), by C. O. Augustine, archt., 1063 Howland Ave., 2 story and basement, brick and concrete, addition, plain foundation, for F. O. E. No. 1055, c/o C. Ryan, chn. com., Public Service Bldg. 150,000. Noted June 5.

Neb., Columbus—High School—July 2, by Fiske & Meginnis, archts., 533 Bankers Life Bldg., Lincoln, 2 story and basement, rein.-con., brick and stone, for Bd. of Educ. Noted Jan. 24.

Tex., Ft. Worth—June 27, by Methodist Sanitarium, c/o W. E. Williams, Texas State Bank Bldg., 8 story and basement, brick and concrete, 6th and Cannon Sts. $1,000,000. W. G. Clarkson, First Natl. Bank, archt.

BIDS RECEIVED

N. Y., Brooklyn—Municipal—City, Boro Hall, municipal, Court and Joralemon Sts., general contract from Cauldwell & Wingate Co., 381 4th Ave., New York City, $4,274,800 plus $1,033,790; plumbing, from E. O'Brien, Inc., 6311 5th Ave., $163,764; heating from Gillis & Gheoghegan, Inc., 537 West Bway., New York City, $222,340 Noted May 22.

Calif., San Rafael — High School — San Rafael High School Dist., general contract 1 story, rein.-con., to contain 25 classrooms and auditorium, from Barenchi & Paganni, 327 Georgia St., Vallejo, $186,513. Noted Mar. 20.

CONTRACTS AWARDED

Me., Portland—Apartment—Chestnut St. Methodist Episcopal Church, 6 story and basement, 65 x 95 ft., brick and timber, Chestnut St., to F. A. Rumery Co., 537 Congress St. Archts. est. $150,000.

N. H., Merrimack— Library — Lowell Memorial Library, constructing library, to Davison & Swanburg, 57 Amherst St., Manchester. Archts. est. $150,000.

Mass., Boston—Bank and Office—State St. Exchange Building, G. N. DeBlois and A. N. Maddison, trustees, 11 Pemberton Sq., altering bank and office building, to L. D. Willcutt & Sons, 146 Summer St. Archts est. $300,000.

Mass., Brockton — Garage — Goodman Bros., 24 Pleasant St., will build 1 story, 100 x 400 ft., brick and concrete, North Main St., by day labor, $150,000. Private plans.

Mass., Brookline (Boston P. O.)—School—School House Dept., 2 story and basement, 33,000 cu.ft. floor space, brick. 345 Harvard St., to B. W. Neal, 293 Boylston St.. $200,000. Noted Feb. 14.

Buildings (Continued)

Mass., Fall River—Church—St. Jean Baptiste Church, constructing church, Field St., to C. H. Hodgate, 370 Bedford St. Archts. est. $200,000.

Conn., South Manchester—Church, etc.—South Manchester Methodist Episcopal Church, Manchester, church and parish house, here, to Manchester Constr. Co., South Manchester. Archt. est. $150,000. Noted June 7, 1923.

N. Y., Mt. Pleasant—Nurses Home, etc.—F. L. Merrill, clk. Bd. Superv. Westchester Co., Court House, White Plains, nurses home and employees dormitory, at Grasslands Hospital, here, to Butler-Reisdorff Co., 120 East 41st St., New York City. Noted May 22.

N. Y., New York—Bank Franklin Savings Bank, 8th Ave. and 42nd St., 2 story, 50 x 100 ft. addition, to Marc Eidlitz, 30 East 42nd St. Archts. est. $500,000.

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., P. S. 73, Anderson Ave., and P. S. 19, Katonah Ave., both Bronx Boro., to Carleton Co., 151 West 42nd St., $805,875 and $395,635 respectively. Noted May 22.

Pa., Upper Darby (Phila. P. O.)—Motor—Mackenzie & Wiley, archts., Bankers Trust Bldg., Phila., 2 story and basement, 100 x 196 ft., brick and steel, plain foundation, Brief Ave. and 69th St., to Bowden Constr. Co., 1935 Chestnut St., Phila., for G. Wilcox, Land Title Bldg., Phila. Archts. est. $175,000.

Pa., Phila.—Apartment—C. E. Oelschlager, archt., 1615 Walnut St., 10 story and basement, 135 x 215 ft., brick and steel, plain foundation, 43rd and Walnut Sts., to Armstrong & Latta Co., 1926 Sansom St. Archts. est. $1,250,000. Owners name withheld. Noted Jan. 10.

N. C., Greensboro — City Hall — For 4 story, brick, concrete and steel, to Ingle & Moser, Greensboro, $312,500.

N. C., Sanford—Hotel—Wilkins & Richs Co., 6 story, rein.-con. and brick, to J. W. Stout & Co., Sanford, $200,000.

Fla., St. Petersburg — Coliseum — St. Petersburg Coliseum Corp., C. F. Cullen, pres., coliseum, 4th Ave., North between 5th and 6th Sts., to W. J. Taylor, St. Petersburg, $300,000 plus. Noted Mar. 27.

Fla., Tampa — Hotel — Wynn-Claughton Corp., E. M. Claughton, secy., Atlanta, Ga., 10 story, 145 x 367 ft., Howard St. and Bay Shore Blvd., here, to Gude & Co., 64 Poplar St., Atlanta, Ga. Archts. est. $700,000. Noted May 29.

Miss., Meridan—High School—Bd. Educ., Junior High School, 2 story, rein.-con., brick stone, etc. to F. W. Leard, McComb, $162,000. Noted May 22.

La., Shreveport — Court House — Police Jury Ouachita Parish, new courthouse to Caldwell Bros., 816 Howard Ave., New Orleans, $427,705.

Ky., Louisville — Cottages — Kentucky Childrens Home Society, St. Matthews St., two buildings for childrens home, to H. Frank & Co., Middleton. Archts. est. $150,000.

O., Canton—Temple—Masonic Assn., general contract temple, Market Ave. N., to R. H. Evans Co., Daily News Bldg., $400,000.

O., Cleveland—Commercial and Office—Hayden Investment Co., c/o H. A. Kangesser, 3 story and basement, 55 x 125 ft., brick, steel and concrete, 2921 Prospect Ave., to Boldt Constr. Co., 1969 East 70th St. Archts. est. $150,000.

O., Cleveland—Orphanage—G. S. Rider & Co., archts., Century Bldg., group of buildings, incl. 60 x 67 ft. cottages, 3 story and basement, 58 x 80 ft. boiler house and laundry, 155 x 229 ft. school, 54 x 170 ft. dining hall, State and Bean Rds., to J. Gill & Sons, Bulkley Bldg., for Catholic Charities Corp., Century Bldg. Archts. est. $2,000,000. Noted May 15.

O., Columbus—Agricultural, Laboratory, etc.—C. E. Steeb, secy., Bd. Trustees Ohio State University, 2 story, 60 x 120 ft. agricultural and engineering building, rein.-con., brick and steel, on campus, to Taylor & Owens, Coshocton, $90,000; 2 story, 80 x 140 ft., rein.-con., brick and tile laboratory, to D. W. McGrath, 255 East Broad St., about $83,000. Noted May 8 and 22.

Ill., Alton—Bank and Office—Alton Natl. Bank, general contract 6 story and basement, rein.-con., brick and stone, 3rd and Belle Sts., to J. Stewart & Co., Inc., 408 Pine St., St. Louis, Mo., $165,000; interior work, etc., to St. Louis Bank Equipment Co., 811 Walnut St., St. Louis, Mo., $54,000.

Ill., Chicago — Office and Storage — P. Gerhardt, archt., 64 West Randolph St., 6 story and basement, 100 x 194 ft., brick and concrete, plain foundation, Washington Blvd., here, to Great Lakes Constr. Co., 38 South Wabash Ave., for A. J. Lindemann-Hoverson Co., 1st and Cleveland Aves., Milwaukee, Wis. Noted May 8.

Ill., River Forest—Church, etc.—First Presbyterian Church, general contract 1 and 2 story, 61 x 112 ft., and 85 x 95 ft., to Guy & McClintock, 7234 Circle Ave., Forest Park. Noted May 1.

Wis., Madison—Church, Chapel and Apartment—German Methodist Congregation, W. Schwering, pastor, 110 South Congress St., Kenosha, 4 story, 61 x 90 ft., concrete, brick and steel, plain foundation, to Bailey-Kasson Co., 139 North Clark St., Chicago, Ill. Archts. est. $150,000. Noted Dec. 27.

Wis., Milwaukee—Apartment—Franklin Realty Co., 85 Mason St., 3 story, 47 x 56 ft., concrete, brick and tile, plain foundation, Franklin St., to Bentley Bros., 8085 Pierce St. Archts. est. $160,000. Noted May 15.

Wis., West Allis—Exhibition—E. G. Schroeder Exhibitors Co., 405 Bway., Milwaukee, 1 story, 250 x 300 ft., brick and steel, plain foundation, State Fair Park, here, to T. Stark & Co., 130 Muskego Ave., Milwaukee. Archts. est. $150,000. Noted May 1.

Ia., Clarinda—Hospital—State Bd. Control, A. W. McCall, chn., general contract 2 story and basement, 45 x 228 ft., rein.-con., brick and stone, to R. C. Alcorn Constr. Co., 841 South 24th St., Omaha, Neb., $145,110.

Ia., Des Moines—Store—L. Oransky & Sons, 313 Walnut St., 2 story and basement, 130 x 150 ft., rein.-con., brick and stone, 3rd and Walnut Sts., to C. Weitz & Sons, 713 Mulberry St., $150,000. Noted Mar. 27.

Minn., Minneapolis—Hotel—W. Weisman Holding Co., Los Angeles, Calif., general contract 5 story and basement, 55 x 156 ft., rein.-con., brick and tile, 2nd Ave. S. and Washington Ave., to H. N. Leighton Co., 127 South 10th St. Noted June 30, 1921.

Ark., Little Rock—Apartment—Rackensack Apartment Corp., Memphis, Tenn., general contract 7 story and basement, 125 x 150 ft., rein.-con., brick, stone and terra cotta, 4th and Hill streets, here, to Gauger-Korsmo Constr. Co., Memphis, Tenn., $195,000. Noted Apr. 3.

Tex., Cleburne—Hotel—R. A. Johnson, Liberty Hotel, Jacksonville, general contract 4 story, brick and concrete, here, to H. D. McCoy, 404 Prairie St., $100,000. Noted Dec. 27.

Tex., Corsicana—Hotel—Corsicana Hotel Co., 203 Magnolia Bldg., Dallas, 5 story and basement, 84 x 100 ft., brick, steel and concrete, to Sibley & Thigpen, 5012 Abbott St., Dallas, $300,000.

Tex., Ft. Worth—Warehouse, etc.—Montgomery Ward & Co., 801 Grove St., will build additions and improvements to warehouse and department store, by day labor. $150,000.

Tex., Galveston—Schools—8rustees Pub. Free Schools, general contracts additions to Central High School and San Jacinto School, brick and concrete, etc., to M. C. Bowden, 18th and Mechanics Sts. Archts. total est. $232,000. Noted May 15.

Tex., Houston—Theatre—H. C. House, Union Natl. Bank Bldg., terra cotta, steel and concrete, Capitol Ave., to J. B. Townsend, West Bldg., $200,000.

Okla., Guthrie—High School—Bd. Educ., 3 story, basement and wing, 95 x 185 ft. concrete, brick and stone, to A. E. Skouby, Guthrie, $145,000. Noted May 1.

Calif., Los Angeles—Exchange—Southern California Telephone Co., 740 South Olive St., 9 story and basement, 120 x 127 ft., steel, brick and rein.-con., Olive St., to Mathis Constr. Co., 753 South San Pedro St., about $800,000 (contract covers all work except steel). Noted May 29.

Calif., Los Angeles—Store, Apartment and Garage—B. Nesa, 1831 Westmoreland St., 3 story and basement (garage section 1 story), brick and concrete, Pico and Berenda Sts., to Pozzo Constr. Co., 421 Macy St., $155,000.

Wash., Seattle—Medical and Dental—Bradner Building Co., 18 story, 41 x 64 x 100 x 230 ft., rein.-con., fireproof, 5th and Westlake Sts., to A. W. Quist & Co., Hoge Bldg. Archts. est. $2,500,000.

Federal Government Work

BIDS DESIRED

R. I., Newport—Roof—Spec. 4994—June 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., roof on steamship building at Naval Training Station, here.

N. Y., New York—Building—Spec. 4970—June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling building here.

D. C., Wash. — Repairs to Pier — Spec. 4983—June 23, by Bureau Yards & Docks, Navy Dept., repairs to wooden pier.

D. C., Wash.—Equipment Repairs—June 23, by Treas. Dept. at office Supervising Archt., repairing mechanical equipment in U. S. Treasury, Treasury Annex 1, Auditors and Liberty Loan buildings, here; adv. E. N.-R. June 19.

Va., Norfolk—Alterations—Spec. 4951—June 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., alterations to building, here.

Va., Norfolk—Roads and Walks—Spec. 4996—June 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., roads and walks, here.

Ill., Springfield—Alterations, etc.—June 20, by Treas. Dept. at office Superv. Architect, Wash., D. C., altering and constructing 18 x 50 ft., non-fireproof mezzanine floor, to Court House, and U. S. Post Office, here.

New Mexico—Road—July 1, by E. S. Wheeler, dist. engr. Bureau Pub. Rds. U. S. Dept. Agriculture, 242 West Washington St., Phoenix, Ariz., constructing or improving 4.173 mi. San Ildefonso-Frijoles Rd., Sect. 5, on Natl. Forest Rd., Sante Fe Co., 28,518 cu.yd. rock, 12,831 cu.yd. common and 23,078 cu.yd. borrow excav., 3,600 cu.yd. surface, etc.

Arizona — Road — June 25, by E. S. Wheeler, dist. engr., Bureau Pub. Rds., U. S. Dept. Agriculture, 242 West Washington St., Phoenix, constructing or improving Clifton-Springerville relocation Uatl. Forest Rd., in Apache Natl. Forest, Greenlee Co.

Arizona — Road — July 1, by E. S. Wheeler, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, 242 West Washington St., Phoenix, constructing or improving 23.436 mi. Flagstaff-Angel Natl. Forest Rd., in Coconino Natl. Forest, Coconino Co., 11,560 cu.yd. rock and 116,275 cu.yd. common excav., 65,100 lin.ft. protection ditches, 23,014 cu.yd. paving, etc.

New Mexico—Road—July 9, by E. S. Wheeler, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, 242 West Washington St., Phoenix, Ariz., constructing or improving 3.57 mi. Cimarron-Taos Natl. Forest Rd. in Carson Natl. Forest, Taos Co., 4,665 cu.yd. rock, 15,894 cu.yd. common and 15,810 cu.yd. borrow excav., 4,000 cu.yd. semi-gravel surface.

BIDS RECEIVED

Ky., Louisville—Pumps—U. S. Engineer, P. O. Box 72, furnishing three rope driven 15 in. centrifugal pumps, from Farrar Pump & Mchy. Corp., Granite Bldg., St. Louis, Mo., $1,650.

Mich., Detroit—Dredging—U. S. Engineer, Old Federal Bldg., Detroit, dredging channel at Russell Island Shoal, St. Clair River, 172,000 cu.yd. excav., from Dunbar & Sullivan Dredging Co., 2212 Dime Bank Bldg., $61,404. Noted May 8.

Colorado—Road—Bureau Pub. Rds., Denver, grading 4.43 mi. Arapahoe Glacier Natl. Forest Rd. Project, Boulder Co., from Sims & Boston, 3300 Adams St., Denver, $37,791.

California—Roads—U. S. Engineer, Bureau Roads, Main St., San Francisco, **(a)** Fredalbe extension **(b)** Pine Knot extension **(c)** both projects under one contract, of Big Bear Valley Natl. Forest Rd., San Bernardino Co., from C. L. Robinson, 700 Swall Ave., Sherman, **(a) $37,936 (b) $64,590 (c) $102,477.**

CONTRACTS AWARDED

O., Cincinnati—Cottages—U. S. Engineer, 405 Custom House, lockkeepers' cottages at Dams 34, 35 and 38, Ohio River, to G. Griffiths & Sons, Central Natl. Bank Bldg., St. Louis, Mo., $21,500. Noted May 15.

Oregon—Road—U. S. Bureau Pub. Rds., Post Office Bldg., Portland, corrugated pipe rubble headwalls in 6.2 mi. Mt. Hood Sect. of Mt. Hood Natl. Forest Rd., Clackamas and Wasco Counties, to J. F. Clarkson, Yeon Bldg., Portland, $121,710.

Unclassified

PROPOSED WORK

Wharf—Providence, R. I.—See "Industrial Works."

Sea Wall, etc.—Belleair Heights, Fla.—Plans election to vote on $40,000 bonds, seawall and boulevard 1¼ mi. long. E. E. Carley, mayor.

Parks, Docks, etc.—Palatka, Fla.—Election July 1, $60,000 bonds constructing parks; $60,000, docks, wharves and warehouses. H. A. Davis, Mayor.

Transmission Line—Alabama—Alabama Power Co., B. M. Bldg., plans 12.5 mi. transmission line from Carbon Hill-Brilliant line to Winfield, and Quinn; line from Cherokee Bluffs to Electric, Elmore Co., with distribution system at Electric; line from Roanoke-North Auburn to Five Points, Chambers Co., with distribution system at Five Points.

Unclassified (Continued)

Transmission Line—Friendship, Wis.—See "Dams."

Transmission Lines, etc.—Kansas—United Power & Light Corp., Abilene, soon takes bids 25 mi. transmission line from Abilene to Junction City, $40,000, 25 mi. line from Abilene to Salina, $50,000, 53 mi. line from Salina to Inman, $107,000, 37 mi. line from Hays to Russell and branch lines, $40,000, each 33,000 volt; substations and tap lines, $80,000; Victoria, Walker and Gorham distribution systems, $25,000; Hays plant improvements, $150,000-$300,000. Y. Y. Young, Abilene, engr.

Park Improvements—St. Cloud, Minn.—Making plans park improvements at Lake George, incl. drive and playgrounds, etc. $75,000. M. B. Lang, city engr.

Transmission Line, etc.—Texas—Texas Light & Power Co., Palestine, purchased plant at Oakwood and plans to construct line Oakwood to Palestine, enlarge power plant, etc. $40,000.

Wharf—Beaumont, Tex.—Had plans prepared Wharf 5, timber and concrete, Neches River. $100,000. Terrell Bartlett, Calcasieu Bldg., San Antonio, engrs. W. L. Fulweiler, city engr.

Breakwater—Corpus Christi, Tex.—City and Nueces Co. Navigation Dist. 1, takes bids about Sept. 1, breakwater near ship channel. $200,000. R. J. Cummins, 727 Bankers Mortgage Bldg., Houston, engr. Noted Feb. 21.

Telephone System—Ft. Worth, Tex.—Southwestern Bell Telephone Co., 10th and Throckmorton Sts., plans extension of system and new equipment. $500,000.

Wharves, etc.—Houston, Tex.—Southern Pacific R.R. Co., Southern Pacific Bldg., had plans prepared wharves, cotton sheds, rail terminals, etc., Clinton St. on Buffalo Bayou. $1,000,000. J. M. Hull, Southern Pacific Bldg., ch. engr.

Gas Distribution System—Vernon, Tex.—D. M. Church plans gas distribution system. $25,000-$30,000.

Power Development—Oregon—The Columbia Valley Power Co., North West Bank Bldg., Portland, plans hydro-electric power developments on the Deschutes River, at Pelton, incl. dam 165 ft. high to develop 51,000 hp., also at Metolius, later, incl. dam, approximately 330 ft.

Street Lighting System — Los Angeles, Calif. — Had plans prepared ornamental street lighting system in Alvarado St. between 6th and Hoover Sts., 102 pressed steel standards. To exceed $25,000. J. A. Griffin, city engr.

Shed, etc.—San Diego, Calif.—Common Council plans election probably late in August, $225,000 bonds, shed, tracks, etc., on municipal pier 2. F. A. Rhodes, city engr.

Lighting System—Ford, Ont.—Plans extending electric lighting system on Sandwich St. and Drouillard Rd. $25,000. J. F. Foster, City Hall, engr.

BIDS DESIRED

Heating System—Brighton (Boston P. O.), Mass.—June 25, by School House Dept., City Hall, Boston, new heating system in Hobart St. school, here. T. P. Glynn, chn.

Heating System—South Boston (Boston P. O.), Mass.—June 20, by School House Dept., City Hall, Boston, new heating system in Parkman school, Bway., here. T. P. Glynn, chn.

Transmission Line—Cookeville, Tenn.—See "Waterworks."

Pier Shore Protection—Racine, Wis.—June 17, by Lakeshore Protection Comn., L. Sorenson, chn., Route 1 Sturtevant, 825 lin.ft. pile pier shore protection along shore of Lake Michigan, Caledonia Twp., for Racine Co. To exceed $25,000.

BIDS RECEIVED

Heating and Plumbing—Brooklyn, N. Y.—See Buildings.

Fences, etc.—New York—Bd. Water Supply, Municipal Bldg., New York, fences, etc., at various localities along the Catskill Acqueduct, Shandaken Tunnel and Schoharie Reservoir, from J. I. Burke Corp., 51 West 66th St., New York City, 3,395 cu.yd. earth excav. and refilling $2, 302 cu.yd. rock excav. and refilling $8.75, 2,600 bbl. cement $4, 1,070 cu.yd. concrete masonry $10, 1,583 rein.-con. end, corner and straining posts $3.18, 6,313 rein.-con. line posts and gate stops $1.50, 133,270 lbs. wire fencing $0.20, 86,950 lbs. reinforcing $0.075, 63,100 lbs. miscellaneous steel and iron $0.32, caring for and hanging 61 gates on hand $18.75, total $100,228.

Plumbing System, etc.—New York, N. Y.—Dept. Educ. at office W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, June 10, plumbing system in James Monroe High School, Boynton Ave. from East 172nd to 173rd Sts., Bronx Boro., from Wells & Newton, Ave. B and 17th St., $163,682. Noted June 5.

Bathing Pool—Phila., Pa.—See "Streets and Roads."

Sea Wall, etc. — Tampa, Fla. — Hillsborough Co., 2½ mi. sea wall, 11,750 cu.yd. concrete and 51,000 lin.ft. timber piling, from Erler Corp., (by B. B. Logan, agt.), Tampa, $298,000. Noted May 1.

Ornamental Lighting System—Los Angeles, Calif.—Ornamental lighting system in Whittier Blvd., from Electric Lighting Supply Co., 214 West 3rd St., $71,908; Central Ave., from C. W. Sparks, Henne Bldg., $83,632; Santa Monica Blvd., from R. A. Wattson, 4907 Melrose Ave., $66,712; Anaheim St., from F. Ziebarth, Los Angeles, $53,861. Noted June 5.

CONTRACTS AWARDED

Underpass Approaches—Hartford, Conn.—Bd. Contr. & Supply, Municipal Bldg., constructing approaches, excavating, entire masonry work and paving Capitol Ave. underpass and Commerce St., to A. Di Marko, 61 East Main St., Plainville, $52,489. Noted May 6.

Drip Pans—Brooklyn, N. Y.—Dept. Plant & Structures, Municipal Bldg., New York, drip pans under Williamsburgh Bridge, to Vulcan Rail & Constr. Co., 35 Meserole St., Brooklyn, $45,995. Noted June 5.

Heating and Ventilating Apparatus — Brooklyn, N. Y. — Bd. Educ., 500 Park Ave., New York, heating and ventilating apparatus in P. S. 197 and P. S. 201, to D. J. Rice, 405 Lexington Ave., New York, $97,694 and $97,832 respectively; also in addition to Erasmus High School, Bedford Ave., to Austin Eng. Co., 121 West 42nd St., New York, $152,475.

Heating and Ventilating Apparatus, etc. —New York, N. Y.—Bd. Educ., 500 Park Ave., heating and ventilating apparatus in addition to P. S. 36, Black Rock Ave. to W. J. Olvaney Inc., 100 Charles St., $48,913; in P. S. 80, East Mosholu Parkway N. and Van Cortlandt Ave., to N. P. Lorenzo, 430 Pearl St., $46,200, plumbing in P. S. 80 to J. H. D. Goldblatt, 345 Madison Ave., $90,000.

Steel—New York, N. Y.—Transit Comn., 49 Lafayette St., furnishing and erecting structural steel for inspection shed No. 18 at 239th St. Yard, Bronx Boro., to Levering & Garrigues, 552 W. 23rd St., $81,970.

Coal Trestle, etc.—Phila., Pa.—S. Margolis Co., 3100 Germantown Ave., 192 ft. rein.-con. and steel coal trestle, and rein.-con. bins, to Armstrong & Latta, 1926 Sansom St.

Sea Wall and Fill—Bradentown, Fla.—Palma Sala Corp., 5,000 lin.ft. concrete and pile sea wall, 180,000 cu.yd. fill, to Thompson & Mosely, Inc., Healey Bldg., Atlanta, Ga., approximately $45,000.

Waterfront Improvements—Daytona, Fla.—City, waterfront improvements, incl. new sea wall, etc., to Barnhardt Constr. Co., Daytona, $202,000. Noted May 1.

Fill—Miami, Fla.—Fill and mounds for Bay Front Park, 1,080,000 cu.yd. fill, to Clark Dredging Co., Miami, $0.154 per cu.yd. Noted Apr. 17.

Paving Materials, etc.—St. Paul, Minn.—Paving materials for paving Selby Ave., between Nina Ave. and St. Albans St., 990 bbl. portland cement, to Thompson Yards, 2694 University Ave., $2.58 per bbl. delivered on street, 30 tons asphalt, to Standard Oil Co. of Indiana, 1937 4th St. Southeast, Minneapolis, $20 per ton, bulk, tank cars ;48.6 tons reinforcing for Water Dept., to Concrete Steel Co., 958 Barry Ave., $2,780, 148 ft. 60 in. inside diam. steel pipe, to St. Paul Fdry. Co., Como Ave. and Mackubin St., $2,713. Noted May 29.

Plumbing, Heating, etc.—Willmar, Minn.—See "Industrial Works."

Material and Equipment

PROPOSED WORK

Steam Roller—Binghamton, N. Y.—Common Council and Bd. Pub. Wks. plans to purchase steam roller. $7,500. B. Winsor, comr.

Fire Equipment—Beckley, W. Va.—Election June 24, $12,000 bonds for fire equipment. B. H. Ashworth, city recorder.

BIDS DESIRED

C. I. Pipe, etc.—Baltimore, Md.—June 25, by Bd. Awards, c.i. pipe, special castings and flanged special castings, 300,000 lbs. manhole, sewer inlet and similar iron castings. B. L. Crozier, City Hall, highway engr.

Concrete Mixer—Columbus, O.—A. W. Burns Constr. Co., 1400 North Grant Ave., in market for concrete mixer, medium size.

Cement, Sand, Gravel, etc. — Oshkosh, Wis.—C. R. Meyer & Sons Co., 50 State St., in market for sand, gravel, cement and 500,000 ft. lumber.

Steel Castings, etc.—St. Louis, Mo.—June 27, by G. E. Scott, purch. agt. Missouri-Kansas-Texas R.R., 1420 Ry. Exch. Bldg., 150 tons miscellaneous castings for locomotives and cars excluding couplers, bolsters and side frames, and 87 tons locomotive and car bolsters and side frames to be used during third quarter of 1924 as needed.

Road Oil—Merced, Calif.—Merced Co. in market 4,200 bbl. road oil.

Pump — Yreka, Calif. — City in market pump for well 110 ft. deep. U. F. Brown, city clk.

BIDS RECEIVED

Castings, Asphaltic Cement, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro. Municipal Bldg., steel castings from Erie Forge & Steel Co., 50 Church St., $4,455; 6,000 gal. asphaltic cement from Warner Quinlan Co., 79 Wall St., $28,650; 8,000 cu.yd. binder stone, from Calvin Tomkins Co., 30 Church St., $15,440. Noted June 12.

Posts and Brackets—Milwaukee, Wis.—Central Bd. Purchases, City Hall, 628 concrete posts and brackets for street lighting system, from Massey Concrete Products Co., Port Washington Rd., $21,987. Noted June 5.

Crushed Rock and Sand—Minneapolis, Minn.—For 5,000 cu.yd. crushed rock /or gravel, from Anoka Crushed Stone Co., 1125 Plymouth Bldg., $2.20 per cu.yd. delivered; 2,500 cu.yd. sand, from Landers-Morrison-Christenson Co., 800 Builders Exch., and J. Wunder Co., Bway. and K St. N. E., each $0.35 per cu.yd. at pit.

Cement—Merced, Calif.—Merced Irrigation Dist., cement, from Cowell Lime & Cement Co., 2 Market St., San Francisco, $3.29, bulk; from Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, $3.69 sacks (allowance for returned sacks $0.10 each, discount for cash 10 days $0.05 bbl.). Noted May 22.

CONTRACTS AWARDED

Snow and Street Sweepers—Buffalo, N. Y.—W. F. Schwartz, comr. Pub. Wks., Municipal Bldg., furnishing 5 combination rotary snow and street swepers, to Pierce Arrow Sales Co., 754 Main St., $54,025; four swivel head snow and street sweepers and one combination snow and street sweeper, to Fox Rotary Snow Broom Co., 2 Lombardy St., Newark, N. J., $31,500 and $10,200 respectively; 2 snow loaders and 2 side discharge snow trailers, to Barber-Greene Co., Aurora, Ill., $10,970 and $4,470 respectively. Noted Mar. 27.

Castings—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., c.i. castings, to Flockhard Fdry. Co., 60 Polk St., Newark, N. J., $46,586.

Cement—New York, N. Y.—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., 3,000 bags portland cement, to D. J. McCarthy, 88 Audubon Ave., $2,040 (10c. returned on each bag). Noted May 22.

Lignin Binder—Trenton, N. J.—State Hy. Comn., 559,380 gal. lignin binder, to M. R. Young, 3 Fisher Pl., $49,604.

Road Oil—Nashville, Tenn.—For 250,000 to 500,000 gal. road oil, to Southern Oil & Tar Co., Clay and Fulton Sts., Louisville, Ky., $0.1775 per gal.

Road Oil—St. Paul, Minn.—State Hy. Dept., 1246 University Ave., 110,000 gal. road oil, to Standard Oil Co. of Indiana, 1937 4th St. S. E., Minneapolis, $0.0599 per gal. Noted May 1.

Asphalt, Cement, etc.—Brantford, Ont.—Furnishing asphalt and road oil to Imperial Oil Co., Ltd., Imperial Oil Bldg., Toronto, $24 ton and $8.45 per gal. respectively; cement to S. Rogers Co., 85 Bay St., Toronto, $3.32 per bbl. less $0.20 each for sacks, limestone dust to Bolander Bros., Brantford, $8.60 per ton.

Cement and Steel—Toronto, Ont.—Dept. Provincial Highways, Parliament Bldg., 100,000 bbl. cement to Canada Cement Co., Canada Cement Bldg., Montreal, Que., $350,000, 100,000 bbl., to A. Rogers Co., 85 Bay St., $350,000, 50,000 bbl., to Hanover Cement Co., Hanover, $175,000; Steel reinforcing to Trussed Concrete Steel Co., Ltd., Walkerville, $50,000.

Sand, Cement, etc. — Toronto, Ont. — Roger Miller & Son, Ltd., Harbor Comn. Bldg., furnishing sand and crushed stone, to Rogers Supply Co., 357 Bay St.; cement to J. Maloney, Ltd., 343 Dufferin St., and F. Ryan, 1319 Bloor St. W.; super cement to Super Cement Co., 86 Adelaide St. E.; and rubble, to F. Ryan, 1319 Bloor St. W.